CATALOGUE GÉNÉRAL

DES

ANTIQUITÉS ÉGYPTIENNES

DU MUSÉE DU CAIRE

MODELS OF SHIPS AND BOATS

SERVICE DES ANTIQUITÉS DE L'ÉGYPTE

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MODELS OF SHIPS AND BOATS

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INTRODUCTION.

An Egyptian tomb has two essential parts, — a burial place and an offering place. In the predynastic and the early dynastic periods, the actual objects intended for the use of the spirit, including food, were put in the burial place, while periodical gifts of food and drink were, no doubt even then, brought to the offering place. From the end of the Third Dynasty (perhaps earlier) the custom can be traced of representing the objects intended for the use of the spirit by paintings or painted reliefs on the walls of the offering place, while the burial place contained, during the Fourth and Fifth Dynasties, very little besides the burial. During this period, in addition to the objects, the paintings include all the ordinary scenes from life, — sowing, reaping, cattle-herding, hunting, cooking, etc. Clearly the purpose is to provide the spirit of the dead owner with a spirit world in essentials like the world of the living.

During the early part of the Sixth Dynasty statuettes of servants performing their usual functions are placed in the *serdab* (or statue chamber), along with the statues of the owner and his family. The *serdab* is, it must be remembered, a part of the offering place because of its origin[1], and because of the slit connecting it with the offering chamber. From the later part of the Sixth Dynasty (perhaps later, as the point in time is not well fixed), these servant groups begin to be placed in the burial chamber, as were the actual offerings of the older period. The groups are, however, considerably developed over those placed in the *serdab*, and are usually of wood. A majority of the scenes represented in the paintings have been found, — models of feasting, brick-making, slaughtering, cooking, cultivating, sowing the grain and similar activities. Among these are models of boats of various sorts, full-rigged and manned, — the same boats which are found in the scenes of the offering chamber. A few practical objects are still placed in the burial chamber : but the greater part of the objects are, like the scenes from life, mere models, —

[1] All the earliest *serdabs* are simply walled-up offering niches, and statues are often placed in the offering chamber itself. See Petrie, *Medum*, pl. VII.

models of pots and pans, weapons and implements. Thus the use of models in the burial chamber is a development of the custom of representing similar objects and scenes in the pictures on the walls of the offering chamber[1]; and the purpose is, in both cases, the same, — to provide the spirit with the essentials of an enjoyable life. The belief in magic underlying both customs is obviously the same.

Every type of boat found among the models is also to be found in the tomb scenes. Just as the tomb scenes sometimes represent ceremonies connected with the burial, — the funerary bark proceeding to the western desert or to Abydos, the offerings and objects being carried to the grave, — so also, models of ceremonial objects are placed in the grave alongside the objects used in ordinary life. Thus, models of funerary barks are found alongside models of the boats of everyday life. Moreover, as the spirit came in the *Middle Empire* to be conceived as following the wandering of the Sun God in the Under-World, solar barks were also placed in the grave for the use of the spirit on this nightly voyage.

On the basis of function, then, the models fall into three great divisions : —

(1) The boats for ordinary use (practical boats for travelling, carrying freight, hunting or pleasure).

(2) The boats used for funeral purposes (ceremonial boats).

(3) The solar boats used in the Under-World (magical boats).

To these may be added a fourth class : —

(4) The boats placed in the temples for the use of the gods, or in ceremonies such as the Osiris mysteries (divine boats).

The last-named are, of course, both ceremonial and magical.

On the basis of structure, or rather structural origin, the boats may be divided again into two great classes, — (A) the wooden boats, and (B) the papyrus boats. It is at present impossible to trace any connection between the earliest wooden boats (Type I) and the papyrus rafts (Type III), for the earliest known representations of wooden boats (Type I) present a characteristic form of their own, based on the structure.

[1] The use of models is well-known even in the predynastic period; but the earlier models are natural size, — wood and clay being used to represent flint and stone.

Combining the functional and the structural characteristics, the following series of types are distinguishable[1] : —

1 A — Type I. Square cut river-boat, two rudders. Old Empire.
1 A — Type II. River-boat with curling stern and single rudder. Middle Empire.
1 B — Type III. Swamp boat, papyrus-raft. From the Predynastic Period down.
1 B — Type IV. Papyrus-form wooden boat. Old to Middle Empire.
2 B — Type V. Funeral bark of papyrus-form. Middle Empire.
3 A — Type VI. Solar bark of uncertain structural origin. Middle Empire.
4 A — Type VII. Divine barks of at least two forms. All periods.

The river boats (Types I and II) are fitted out for both sailing and rowing or paddling, as are the Nile craft of the present day. The ordinary proceeding on long trips was the same in antiquity as now. With the prevailing north wind, the boat was sailed up the river; but on the return journey, the boat was rowed with the stream, or allowed to drift, guided by the oars. To avoid the effect of the adverse wind, the mast was removed and laid at rest along the middle of the deck or on the roof of the cabin. The distinction, therefore, between sailing vessels and rowing vessels is not an essential one. It was customary to place the boats in the tombs in pairs, one rigged out for sailing upstream, and one for rowing downstream. They were even correctly orientated in the graves, the sailing boats with the bow turned south, and the rowing boats turned north (see Schäfer, *Priestergräber*, p. 16)[2]. The existence of powerfully manned boats with thirty or forty rowers is clear from the ancient models and reliefs, and their usefulness for pressing affairs is obvious. In the Beni Hasan tomb-scenes, they are also represented towing the funerary bark. In modern times such boats are, of course, made unnecessary by the use of power launches and steam dahabiyehs. However a number of boats with canopies and manned by eight to sixteen rowers are at present in use on the waters of the Aswan reservoir.

The models and the reliefs show the following chronological succession (the type numbers refer to the descriptions given above) : —

IV-V Dynasty. — Boats of Types I (usually with paddlers) and III, as boats used by the living.

VI Dynasty. — Boats of Types I (with rowers), III and IV, as boats used by the living.

[1] In general, see Erman, *Life in Ancient Egypt*, chap. xix.

[2] See also Garstang's report on Beni Hasan in *Annales*, V, p. 216. The photograph, pl. I, n° 3, shows the boats orientated as described above.

Intermediate Period between VIth and XIIth Dynasties (limits not exactly determinable). — Boats of Types I, II, III and IV, used by the living : and funeral barks of Type V.

XII Dynasty. — Boats of Types II, III and IV, used by the living; funeral barks of Type V; and solar barks of Type VI, used only by the dead.

New Empire. — Apparently the only boat models are those found in Royal Tombs, which are models of royal pleasure boats developed from Type IV and decorated accordingly. Models of divine boats (mostly of stone) have been found in temples, but were also in use in earlier times.

Models of boats occur in wood, pottery, stone, metal and ivory, although the great majority of boats are of wood. The technical construction of these models does not differ essentially from that of other objects of the same material. The pottery boats are hand-made of various clays; the stone boats show the same technique as the statues; and the comparatively rare ivory boats are made in the same way as the other ivory objects. The same is true of the wooden boats. The hull is usually made of a single block of wood, sometimes repaired by inserting pieces with pegs. The block is often eked out by pieces pegged on the bow and stern. The whole is covered, in most cases, with a layer of white plaster and painted. The rigging, the furniture and the crew are of separate pieces pegged on or fastened in holes, and individually often formed of several parts pegged together.

All this carpentry is cunningly done in true Egyptian style, and presents a number of interesting features, — the numbering of the crew in n° 4798, the position marks for the symbolic objects on n° 4860, and the beautiful minute work on n° 4918. But a greater interest attaches to the representation of the actual structure of the boat. In the earlier models (Type I), the structure is shown in miniature (except hull planking) in the model. But the later types have adopted a color scheme which represents schematically the structure, — red or yellow[1] for the heavy planking and beam work, white for the moveable deck planking, and black for the ties of leather, cord or metal which bind the boat together[2]. This color scheme is very clearly illustrated by n° 4910, where the mast-shoe is painted in red and black on the deck and the object in the position of the mast, and in the rudder n° 4823, where the black bands which bind the blade to the shaft are clearly shown. In the papyrus boats, the hull is usually yellow as on the reliefs. In the funeral barks and the solar barks, the

[1] Type I is painted red or yellow in the Old Empire reliefs.

[2] See Christian Belger, *Z. Aeg.*, vol. XXXIII (1895), p. 24-32.

color is only used on the deck to represent structure; on the hull, the rigging and the furniture, it is used to mark the peculiar purpose of the boat. The funeral barks have almost all green hulls with yellow ends, while the solar barks are usually white.

I. THE OLDER TYPE OF WOODEN RIVER BOAT.

From Meir (1895, tomb of Pepy-en-ankh-kam)[1], come models of a type of river boat which corresponds to boats seen on most of the reliefs of the Old Kingdom. Although otherwise well preserved, no figures were with these models (when brought to the Museum), and no trace (such as peg-hole or plaster-print) was discernible which might indicate that there ever were figures on them. Whether the models were placed in the graves without crews or not, they must be considered, in the light of the other boats, as needing steersman, look-out and sailors. In fact, such boats are shown in the reliefs of the Old Empire, full-manned, both as travelling boats and as freight boats (see Relief of [illegible], *Guide to Cairo Museum*, n° 38, VIth Dynasty : see also Davis, *Deir-el-Gebrâwi*, I, pl. X, XVI, and II, pl. VII : see Lepsius, *Denkmäler*, abt. II, Bl. 9, 10, 12, 22, 24, 28, 43, 45, 61, 62, 64, 96 and 104).

The *models* of this type are of two forms, — one flat-bottomed with a two-legged mast (n°s 4882, 4883, 4884, 4886), and the other round-bottomed with a single mast (n°s 4887 and 4888).

1. HULL.

Navigation on the Nile, where shifting sandbanks present unexpected shallows, required in ancient times as now, a stable boat of light draft. The largest native boats of the present day require from 50 to 100 cent. of water, and stability is gained by great breadth. The large ceremonial boats found at Dahshur[2] show clearly a form which, although more graceful than the modern boats, is light of draft and yet stable because of its great breadth. So also the models of Type I are, in form, broad and shallow. The flat-bottomed form has

[1] One other boat, n° 4880, a papyrus-form boat of Type IV was found with these models of Type I.

[2] See De Morgan, *Fouilles à Dahchour*, vol. I, p. 83, fig. 203. In the cross-section, the keel-beam is, unfortunately, not represented.

place by turning the rudder on its axis as in Type II, by the mere strength of the hands on the shaft. On the contrary, the rudders must have been levered against the side of the stern so that the steersmen on one side pulled the shaft in, causing the blade to be thrust outward, and so turned the boat towards that side. The steersmen on the other side probably allowed their rudders to float or pulled them up out of the water. The broad overhanging stern appears to have been especially constructed to facilitate steering by this method. N°s 4882 and 4884 have in the third or last cross-piece in the stern two posts joined by a cross-piece (now missing, see pl. XIII). This may have served as a rest for the rudders (now missing), and would indicated that there were two rudders similar to those of Type IV, one on each side.

(*c*) Oars and Paddles.

As the crews are wanting in the models, it is again necessary to turn to the reliefs for the oars and paddles of this type of boat. The older reliefs, those of the IVth and V^th^ Dynasties, show paddles [1] as a rule, while the later Old Empire reliefs, those of the Vth and VIth Dynasties [2], show rowers. The paddlers appear to be standing, while the rowers are both seated and standing. In Saqqarah, 31 (*Denkmäler,* II, 103, 104), the rowers are seated with the inside foot braced against the cross-seat or bench in front of each one, as is the modern custom. In Giza, 86 (*Denkmäler,* II, 12), the rowers have the inside hand on the oar in front and the outside hand on the oar behind, so that they formed a connected chain swinging in unison.

The paddles and oars show the same slight variations in form which are found in Type II (q. v.).

4. FURNITURE.

Only n° 4886 shows a canopy. No other furniture was indicated. On the reliefs these boats are usually represented with a long canopy like that of n° 4886, or with a canopy covering the projecting stern frame (see Lepsius, *Denkmäler, Ergänzungsband,* Tafel XXXVII).

On the relief of , these boats are shown both as travelling boats and as

[1] Lepsius, *Denkmäler,* II, 22 (Giza, 24), 24 (Giza, 36), 28 (Giza, 45).

[2] Lepsius, *Denkmäler,* II, 9 (Giza, 75), 12 (Giza, 86), 43 (Giza, 95), 45 (Saqqarah, 15), 62 (Saqqarah, 15), 64 bis (Saqqarah, 15), 101 (Saqqarah, 31), 103 (Saqqarah, 31), 104 (Saqqarah, 31).

freight boats, loaded with provisions and agricultural produce. In *Deir-el-Gebrâwi*, II, pl. VII, they appear under sail, and one of them is towing a funeral bark. Thus, from the reliefs they appear to be merely a more ancient form than Type II, used for the same purpose.

TYPE II.

The models representing river boats of the later or Middle Empire type (Type II) all have the same general form of hull, marked by the curled-up stern and the single steering oar. One slight variation is presented by nos 4859, 4947 and 4951, which have at the tip of the stern a projecting fork to hold the stem of the rudder.

List of Travelling Boats of Type II.

Fitted for Rowing.	Fitted for Sailing.
—	—
N° 4798	N° 4802
4799	4841
4800	4861 (paddlers)
4801	4910 [2]
4805	4912
4844	4918
4845	4947 [1]
4846	4951 [1]
4859 [1]	4952 [3]
4869	4955
4872	
4909	
4913	

1. HULL.

The flat bottom presented by all these models of boats is, of course, merely a device for making the models stand upright in the proper position relative to the water line when afloat. It seems, in fact, to mark the water-line,

[1] The boats thus marked have a rudder fork on the tip of the stern.

[2] This boat has a crew of sailors standing about the place where the mast ought to be, and is a typical sailing boat; yet the place for the mast is occupied by a mast-rest which was used only on the down journey, i. e. when the boat was being rowed. The mistake was ancient.

[3] In reality fitted out as a funerary bark, and otherwise anomalous, see p. 25, note 1.

although the stability of the boat would appear to require that the hull should lie much deeper in the water than this line usually indicates. However a comparison with the boats represented on the reliefs shows that the proportions of the hull above the water-line, its relative length and depth, are in most of the models the same as on the reliefs, and therefore probably not essentially different from the proportions of boats in actual use. Apparently if the models were conceived as round-bottomed with the same depth as at present, the result would be a stable, light-draft hull of the same form as that discussed above under Type I (see p. vi), and constructed in the same manner of mortised planking.

Thus, while the hull-forms presented by the small models are, perhaps, not exact copies of boats in use, they are, in any case, such close approximations that they suffice for all magical purposes. The main points to be observed are : — (1) The tapering section of the round bow with its projecting stick. (2) The square-cut stern curling forward to form a rest for the shaft of the *single rudder*. (3) The low rail formed usually by the side beams or by continuations of the planking of the hull. The low structural keel formed by the great keel-beam is never represented.

2. DECK.

The skeleton of the deck was formed by cross beams which served partly as seats and partly as lateral braces. The space in the stern, being in constant use by the steersman, is usually represented by solid planking (red); but the other spaces are white, and were probably covered by a movable planking, as is the case in modern dahabiyehs. In sailing, the planking would be laid to permit the use of the deck; in rowing, the planking might be removed to admit the legs of the rowers. The models n°s 4798, 4799, 4800, 4801, appear to show the deck open, that is, with the deck planking removed; but all the rest have the deck closed with white planking. In all cases, the rowers are represented as seated on the red cross-bars (seats), or on blocks [1]. In the reliefs, the rowers appear both standing [2] and seated. In modern dahabiyehs, the rowers usually stand on the deck; but in undecked boats, they either sit on the cross-braces (seats) or stand in the bottom, with one foot pushing on the cross-brace.

[1] The use of blocks in some of the models is confirmed by the reliefs, see Newberry, *Beni Hasan*, I, pl. XVI (Tomb 2); Lepsius, *Denkmäler*, II, 126; Newberry, *Beni Hasan*, I, pl. XXIX (Tomb 3).

[2] Newberry, *Beni Hasan*, I, pl. XIV (Tomb 2), pl. XXIX (Tomb 3).

3. RIGGING.

At the bow is a flat stick with broad concave end. — possibly some kind of fender. In the models, the bow-stick is pegged to the deck, but in real boats it appears from the black marks to have been securely bound. N° 4918 (sailing vessel) and n° 4951 (sailing vessel) have no bow-stick, but in the case of n° 4951, the bow, being cut off flat, is bound with hide (white hair with black spots).

(*a*) The Mast, Spars and Sail.

The main deck is almost always slightly lower than bow, stern and rail, and is divided by the red bars into an odd number of pairs of white spaces. — 5, 7, 9, 11, 13, 15. Rarely does one find an even number of pairs, as in n°s 4802 and 4909. Between the members of the middle pair, there is an extra white space, a narrow rectangle, which contains the mast-hole, and represents the framework of the mast-socket in the actual boat. The butt-end of the mast must have rested in a hole in the keel-beam supported by wooden blocks fastened to the hull, or in a socket built on the keel-beam with wooden blocks. It is possible that the mast-shoe (n°s 4799, 4910, 4914, 4918) represented on some of the boats, *but not on all*, is to be thought of as resting on the bottom of the boat; but the models show the mast-shoe on the deck, and it is visible in some of the representations as if on the deck (see *Beni Hasan*, II, pl. XII). In either case, the mast-shoe braced against the forward side of the mast. The mast, usually a single stick, was stayed against lateral movement by side ropes fastened in the rail, against forward movement by ropes fastened to the rudder post or to the rail at the stern, and against backward movement by ropes fastened to each side of the bow. The models often bear holes in the rail, apparently for these rope-stays (see n°s 4798 (*j*), 4799 (*h*), etc.). The greatest strain was, of course, that in the forward direction, and the reliefs show the heaviest staying in the ropes fastened to the rudder-post to counteract the forward strain. A two-legged mast does not appear on any of the reliefs of this type of boat known to me, nor was it found in any of the models in the Museum (see, however, Type I, p. VII). The sailing vessels are all square-rigged, with a single mast, two yards and a square sail.

The mast found in most of the models was a plain tapering stick, uncolored or painted red or yellow. In some cases, the tip bore eyelets worked in the mast itself (n°s 4798, 4869, 4913, etc.), or formed of bronze or copper (n° 4918). In two cases (n°s 4951, 4956), the models had mast tips of green

glazed steatite with eyelets. These, I believe, represent bronze caps with bronze eyelets. The number of eyelets was irregular, — five or seven in number. The odd eyelet on the top was, no doubt, for the stay-rope or ropes which passed over the mast from bow to stern. The side eyelets were for the ropes used for hoisting and lowering the upper yard with the sail.

The upper yard was suspended by three or five ropes on each side, fastened to the yard at intervals, passing up through the eyelets and brought down the mast to the deck, where they were tied around the mast (see n° 4841). The lower yard was suspended in the same way except that the ropes were tied to the mast below the eyelets (see especially *Beni Hasan*, I, pls. XIV and XXIX). In some of the reliefs the spars appear to be aft of the mast (*i. e.* on the windward side); but the point is unclear.

The square-cut sail had the upper and lower edges hemmed or bound with cord. These edges were lashed to the yards by ropes running through holes just inside the hem (bound edges?) and around the yard (see n°s 4841 and 4936), being tied hard at the end of the yard. The sail was raised and lowered by raising or lowering the upper yard. The few sails preserved in the models do not show any reefing strings[1]. The sail was turned to the wind, and controlled by means of a rope near each end of each yard (see *Beni Hasan*, I, pl. XIV, and the ropes on n°s 4841, 4839, 4936).

When not in use, that is, on the journey downstream, the mast was taken out and laid along the axis of the boat with the butt of the mast in the bow. In this position the mast and yards were supported out of the way above the deck by a forked post set up in the mast-socket (see *Beni Hasan*, I, pl. XVI, *Gizeh and Rifeh*, pl. XC, and n°s 4834, 4951).

(*b*) Rudder-post and Rudders.

The rudder-post is much thicker and more solid than the mast. It has a square butt and a rounded or octagonal shaft (n°s 4798, 4918). The top is rounded and slightly grooved. It was without doubt, firmly and permanently

[1] In Dongola, a square sail is used on the modern boats but hung *diagonally* not horizontally. There are two spars, the lower one being very heavy. The end of the lower spar is kept down in the boat and both ends are controlled with light ropes. The sail is furled, shortened or lenghtened by rolling or unrolling it on the lower spar. The lower spar has at right-angles through a hole in the end a stick, which is used for this operation. It is very doubtful however whether a similar device was used on the ancient Egyptian boats. None of the spars preserved show any trace of the handle which is absolutely necessary to turn the spar. Moreover the ancient sails, it is quite clear, were hung horizontally.

fastened in its socket in the last cross-beam, and further in a socket in the bottom (keel-beam), as it was never removed (unlike the mast), and was utilized to stay the mast against its greatest strain.

The rudder consisted of a long round stem and a large ovoid blade. The black marks on the blades (see n°s 4801, 4820, 4825, 4844, etc.) show that each blade consisted of two boards fastened to the end of the stem by means of cords or metal bands. Tenons were certainly also used in the thickness of the plank, but the black marks seem to indicate only the thong bonds. The stem itself was also sometimes of two pieces joined together in the middle, and bound with leather or metal.

Above, the stem of the rudder was usually merely tied against the top or the side of the top, but in one case it rested on a peg in the side of the rudder-post near the top (n° 4928). Below, the stem rested against the curling stern, and was tied securely in place with cords (see n°s 4798, etc., holes in stern, and *Beni Hasan*, I, pl. XVI, etc.). The handle was a separate stick fastened in a slanting hole in the stem, so that the handle fell vertically just aft of the stern post and parallel to it. By swinging this handle to the right or left, the steersman turned the blade in the water, thus steering the boat to the right or to the left. That is, the bow turned with the hand: not contrariwise, as is the case with an ordinary modern boat-rudder. In some cases, where the steersman sat on the roof of the cabin in order to see the look-out who gave the steering order, the handle was forward of the stern-post; but the action of the rudder was not altered by this position. Ordinarily the height of the stern was sufficient to permit the steersman a clear view of the look-out.

This method of steering was, mechanically speaking, a great advance on the rudder held in the hand (Type I). The labor-saving alone was considerable: for, whereas Type I required at least two and more often four or more steersmen, Type III required only one. Moreover, the strain on the rudder was less and the control more perfect. The essential differences between the two types all center about the steering apparatus. The change to a single mast was an additional advance but did not necessitate any change in form. The new steering arrangement required, however, a different form of stern. The old stern-post for the mast-stays was enlarged to support the upper end of the rudder while continuing its function as a post for the stays; and the stern was remodeled into a form suitable for supporting the shaft of the rudder and throwing the blade well back in the water. I have no doubt that it was *the invention of this new method of steering which brought about the development of Type II out of Type I.*

(*c*) Oars and Paddles.

The better made oars have spoon blades (see nos 4862, 4863, 4870, 4871, 4877, 4895), oval or ovoid in outline with a slight projection at the end. The end of the stem overlaps the blade at the back for about a quarter of the length of the blade or less. The black marks on no 4895 indicate that the blade and the stem were of separate pieces, the end of the stem being tied with metal or cord to the blade : and no doubt this was the case in all the large oars. The stem itself (nos 4845, 4862, 4863, 4895) is marked with a broad black band in the middle, showing that it was either made of two pieces fitted together and wrapped, or that the stem, being of a single piece, was strengthened by wrapping. Modern Egyptian oars are often strengthened (or repaired) at this point by strips of wood, nailed to the stem. The oarlocks were simply rope loops passing through holes in the rail (nos 4798, 4869), and around the stem. The modern Nile oarlocks are also of rope loops, not fastened in holes but hung over wooden pegs fixed vertically in holes in the top of the rail; and the oar is levered against the peg.

The paddles, which are unusual, in fact anomalous, in Type II, are of a slightly different form, shorter and very broad and round at the tip, very much like the paddles usual in Indian canoes. Another form is leaf-shaped, with the end pointed[1].

(*d*) Buffers, Mallets and Stakes.

Buffers are found on nos 4844, 4861 and 4910[2]. No 4910 was, no doubt, a wooden buffer covered with hide. The others may be of wood, or of heavy woven sacks filled with palm fibre.

The boats were fastened to the bank, as at the present day[3], by means of heavy stakes driven in the ground with big wooden mallets (ovoid clumps of wood with a handle), see *Beni Hasan*, II, pl. XII, and Petrie, *Gizeh and Rifeh*, pl. XC. No examples, however, were found in the models of this type in the Museum (see however the New Empire mallets, nos 5158-5160).

The landing-plank, which is never missing in modern boats, must also have been in use in antiquity, but no examples occur among the Museum models[4].

[1] See Quibell, *Excavations at Saqqarah*, 1906-7, pl. XVIII, 5, model of Type IV.

[2] See also nos 4878, 4879, 4939.

[3] Iron anchors are in use now, in addition to the stakes; but the stakes form the only mooring apparatus of the poorer owners of boats.

[4] See Quibell, *Excavations at Saqqarah*, 1906-7, pl. XXVI, nos 3 and 20 ; see nos 5153-5155 below.

4. FURNITURE.

None of the models in the Museum, of boats rigged for rowing show any accomodation whatever for the use of the owner and passengers, nor indeed any figures except the necessary members of the crew (nos 4798, 4799, 4800, 4801, 4805, 4844, 4845, 4846, 4869, 4872, 4909, 4913, and the two boats equipped for sailing, nos 4861 and 4912). These may be intended for the tug boats represented on the monuments, — the heavily manned boats which tow the ceremonial boats; but even the tug boats in the reliefs are represented with cabins or canopies. There are, moreover, examples of models outside the Museum collection in which rowing boats of the general form under discussion have canopies (see Schäfer, *Priestergräber*, p. 72). Therefore no importance can be attached to the fact that the rowing boats of this type in the Museum are bare of all furniture save rigging and crew. It may be merely a question of space on the deck of the model.

The sailing boats are, however, with the exception of nos 4861 and 4912, furnished with a cabin or canopy, sheltering a figure of the owner seated usually on a throne or chair (nos 4802, 4841, 4910, 4918, 4951, 4953). In the case of n° 4952 [1], the canopy shelters a bier with a mummy; and n° 4947 has a figure of the owner without a canopy. In n° 4951, the canopy is forward of the mast; in the others, aft, near the rudder-post. In n° 4910 there is also a box-like object in front of the mast-rest, and what may be a sealed jar of beer in a wooden stand behind the mast-rest.

The canopies or cabins on these boats, as well as on those of Type I, are *usually* of a practical type, differing from the chapel-like canopies on the papyrus boats and the funerary barks [2]. They are intended to shelter the owner from the sun and the wind. The most elaborately constructed example is on n° 4918, which is especially interesting on account of the representation of the wood-work, the doors and locks. The framework on n° 4910 is fastened with cord where the horizontal sticks cross the uprights, and the roof is overlaid with a square cover made of hides sewed together. This is the usual form of cabin for ships of Type II (see Schäfer, *Priestergräber*, p. 72 and 75, and nos 4920 and 4921).

[1] The crew of n° 4952 is also anomalous, including waiting-women and a priest, like the ships of the dead; and the model is probably the result of an ancient confusion as was n° 4910 (see p. ix, note 2).

[2] See, however, n° 4841.

5. CREW.

The crews found on the models of rowing boats are very uniform, — a look-out (captain, pilot), a steersman, and six to forty rowers, arranged in pairs. The *rowers* face the stern in all cases, in spite of n° 4801 on pl. II (see note, p. 6, foot-note 4) in which the rowers have been falsely placed by the restorer. *Paddlers* face the bow (see n°s 4880, 4881 and 4861, and *Deshasheh*, pl. XV; Schäfer, *Priestergräber*, p. 73). The rowers are represented *as seated*, while the paddlers are *kneeling on the outside knee*. Thus it is easy to distinguish between the two types, even when separated from their places on the boats. The only ship in the Museum of the type under discussion having paddlers is the sailing boat n° 4861.

The sailing ships, being only rowing ships under sail, show the same crews as the rowing ships, — look-out, steersman and rowers. Three or more of the rowers, however, are represented as sailors standing about the mast, usually with hands uplifted, while the others are seated at rest in various parts of the ship, — sometimes in the places occupied in rowing (see n° 4912). In n° 4841, paddlers appear to be assisting the progress of a boat under sail; but this again seems to be a false restoration as the figures are rowers not paddles.

In addition to the working crew, the sailing ships bear the figure of the owner (see above, p. xv). Other figures are rare, but n° 4951 has a porter with baggage beside the canopy, and n° 4918 a group of friends. N° 4952 is, as noted above (see p. xv) anomalous, and has a bier with a mummy under the canopy, accompanied by two wailing women and a priest. Other ships which have come into the Museum since this catalogue was prepared, show, however, that the owner may be accompanied by all manner of servants, guards and companions. One of them (Garstang, *Annales*, vol. V, pl. V) has a negro soldier with bow and shows the owner and a companion playing a game.

6. COLORING.

The coloring is very uniform. The hull is red or yellow, representing heavy planking. The deck has red rail and bars (in n° 4910 yellow instead of red) representing the framework, white spaces representing movable planking, and black marks representing the ties of cord, thong or metal.

III. THE PAPYRUS RAFT.

The papyrus raft, so well known from the representations in the reliefs of the Old and Middle Empires, is not represented among the models in this catalogue; but it must be mentioned here on account of its relation to other boats of papyrus form (Types IV and V). The structure is perfectly clear from the reliefs. The raft is made of papyrus reeds bound together (*Medum*, XXIII; *Deshasheh*, pl. V), to form a narrow float on the top of which the owner or the crew appear to stand. The form is characterized by the heavy cylindrical ends lifting above the water. Probably the raft was made for temporary purposes only. It could in no case have had a long period of use[1].

The papyrus canoe-raft is the boat shown in the traditional hunting scene in the marsh, from the Fourth Dynasty down. In fact it is the marsh boat *par excellence*, and is seldom depicted except in marsh scenes (*Beni Hasan*, II, pl. XXVIII, XXIX; *Deshasheh*, V, VI, XXV, XXVII; *Medum*, XXIV). Its lightness was well suited to the shoal waters of the marshes and of the flooded fields of the inundation period, while its slender form with the stout pointed bow and stern made it especially adapted for pushing in and out among the reeds. According to the reliefs, it was usually propelled by a pole (*Medum*, XXIV), or by paddles (*Deshasheh*, XXVII), both of which are especially adapted to shallow water.

The clay models of boats found in predynastic and early dynastic graves have been assumed to be models of papyrus boats on account of the decoration (see Petrie, *Naqada and Ballas*, p. 41 *a*, pl. XXXVI, 80-82; *Diospolis Parva*, XVI, 81, 82, and Capart, *Primitive Art*, p. 199 and p. 229)[2]; but this assumption

[1] Mr. J. W. Crowfoot informs me that temporary reed rafts are still used in Dongola and Halfa Provinces for ferrying across the Nile. These rafts, with surface almost awash, are propelled by swimmers. Mr. H. S. Wellcome has also given me a description of the *ambatch*-canoe used on the upper reaches of the Nile. The *ambatch* plant has a light shaft about 10 to 20 feet long varying from a finger thickness to two or three inches across, heavier at the butt and tapering above. The sepoles are tied in a bundle at the ends and a very slight hollow is made by forcing out the poles on top or by usage. Thus structurally it corresponds to the papyrus raft. The user sits on top or in the slight hollow and paddles with his hands, with a wooden paddle or pushes with a pole. The top is nearly awash. Mr. Wellcome has never seen more than two people in an *ambatch* canoe, but he was told that «in former days» large rafts with mast and sail were made carrying many people. The more permanent boats are made of hollowed logs.

[2] The alabaster object represented in Petrie, *Abydos*, I, pl. IX, 4, represents a hollow vessel of bound reeds; but the identification of the vessel as a copy of a boat, unsupported by analogy, is very doubtful.

presents difficulties. The clay models are usually hollow, with flat-sided ends, while the papyrus rafts are solid bundles of reeds with round ends. The hollow reed-boats of other lands, as in Mesopotamia, are of closely woven basket work smeared with mineral pitch[1], but the Egyptian clay models scarcely indicate such a structure. It may be presumed that the papyrus raft is quite as early as the predynastic period, but could hardly have been used as a river boat. The river boat of the predynastic period must have been of a different structure, — hide boats with wooden frame, log canoes or wooden boats, all of which were within the technical powers of predynastic Egyptians. For it is quite certain that the predynastic Egyptians, as early as the Middle Predynastic period, made and used wooden planks, mortising and tying them together with cords; and so even the mortised planking of the wooden river boats were not, technically speaking, impossible. It seems to me improbable, then, that the early clay boats are models of papyrus rafts.

I have purposely not referred to the drawings of boats on the predynastic pottery (see J. de Morgan, *Origines*, I, pl. II, 5; Petrie, *Naqada and Ballas*, pl. LXIV, LXVII, LII, 70-71; Petrie, *Diospolis Parva*, pl. XVI, XX; MacIver, *El-Amrah*, pl. XIV), on the walls of Green's Tomb at Hierakonpolis (*Hierakonpolis*, pl. LXXV-LXXIX), and on the ivory tablets from the early dynastic Royal Tombs at Abydos (Petrie, *Royal Tombs*, I, pl. XVII; *Royal Tombs*, II, pl. XI[2]). Whatever these may be, they are not papyrus rafts, and so far as I know, there are no representations of papyrus rafts earlier than the Third Dynasty, and no models resembling them until after the Sixth Dynasty.

TYPE IV. WOODEN BOATS

IMITATING THE PAPYRUS RAFT IN FORM.

A series of river boats, manifestly of wood, are represented in the reliefs and in the models whose form suggests a derivation from that of the papyrus raft. The bow and stern-pieces are roughly cylindrical and end in buttons which are decorated to resemble papyrus flowers. Even the bands are shown with which the bundle of reed stems were bound (like the bundle columns with open flower capital). This boat bears a canopy with a figure of the owner, a mast and sail,

[1] Up to the present, Mr. Lucas has found a few examples of wood pitch, but none of mineral pitch, in the samples submitted to him. See A. Lucas, *Preservative Materials used by the Ancient Egyptians in Embalming*, p. 49.

and a crew of six or more paddlers or rowers, and is thus sharply distinguished from the ship of the dead (Type V). The deck of the models is, in some cases, painted white with red bars, like Type II (see n° 4803 and Schäfer, *Priestergräber,* p. 74 and 78), and in some cases plain white (nos 4804, 4807, 4808, 4880, 4911 of this catalogue).

All the *models* are later than the VIth Dynasty; but there is a representation of this type in the reliefs in Lepsius, *Denkmäler,* Ergsb. I, pl. XL[1], where a papyrus-form boat is shown in the same register with three boats of Type I. The papyrus-form boat and one of the boats of Type I are being rowed to the right (downstream), while the other two are proceeding under sail to the left. The last sail boat on the right is towing a small boat of Type I, laden with jars of beer or wine. The date of the tomb is probably late Vth or VIth Dynasty[2].

On the tablet found in the burial chamber of Mera (later than the VIth Dynasty) (see Petrie, *Deshasheh,* p. 20, and pl. XXVII), two papyrus-form boats are shown, one under sail to the right, and one being paddled to the left. See also Davies, *Deir-el-Gebrâwi,* II, pl. XVII and XIX.

In his *Life in Ancient Egypt* (Trans.), p. 480, Prof. Erman considers the large papyrus-form boats to have been constructed of papyrus-stems[3]. This is always to be considered possible : but as Erman himself suggests, such boats would have been impracticable. It is much more probable that the papyrus-form boats were made of wood, imitating in form the papyrus raft, and used mainly as pleasure boats for back-water or swamp navigation. A basis for this suggestion may be found in Petrie, *Medum,* pl. XI, and in Lepsius, *Denkmäler,* II, Bl. 108 (Zawiet-el-Meitin, 2), where wooden boats are shown being constructed in the form of papyrus rafts. Naturally wooden boats of this form might well be used on the river, or at any rate be so represented in the reliefs or in the funerary furniture. The New Empire boats found in the tombs of Amenophis II and Thothmes III appear to be derived from Type IV.

1. HULL.

The hull of the models with plain white decks is very long, narrow and shallow, running out at each end into a long slender stem with a flower-shaped

[1] *Sakkara,* Grab I, see text of same, vol. I, p. 139, and Lepsius, *Denkmäler,* Abt. II, Bl. 96.

[2] In *Deshasheh*, pl. VI, a boat, possibly of papyrus form, is represented under sail with a two-legged mast and 16 or more rowers or paddlers at rest. It may be, however, a boat of Type I.

[3] I do not think the papyrus raft of Lepsius, *Denkmäler,* II, Bl. 106 (Zawiet-el-Meitin, 2), is to be taken seriously, but only as a fanciful development of the old marsh scene.

termination [1]. It certainly lacked stability, and while sailing must have been liable to capsize. The hull of the models reproduced in *Priestergräber*, p. 74 and 78, is, except for the flower-like bow and stern, like the hull of Type II. This is, of course, suitable for river navigation, and in fact, in *Deshasheh*, pl. XXVII, two such boats are represented, one under sail, proceeding upstream (to the right), and one being paddled downstream (to the left) [2]. N° 4803 presents a third form with very stumpy projecting bow and stern.

2. DECK.

In all cases, the deck was flat, or nearly flat, in section rising slightly towards the ends. A low rail on each side protected the deck, or in some cases the middle part only (n° 4911).

3. RIGGING.

The mast (in some cases a single stick, in others two-legged), the yards, the square sail, the stays and the mast-shoe, do not present essential differences from the similar parts of the boats of types I and II. N° 4808 has a bar on the deck in front of the mast for fastening ropes.

With single mast.	With double mast.	With paddlers (no mast).	With rowers (no mast).
N° 4804	N° 4808	N° 4880	N° 4807
4803		4881	4911

The form of the stern made the use of a *single fixed* rudder practically impossible. Therefore the steering was done with a large paddle held in the hands of a steersman (*Priestergräber*, p. 74 and 78), or with two fixed rudders, as in all the Museum models. In the latter case, the upper ends of the rudders were tied to two rudder-posts as in Type II; below, the shafts were tied to and rested on a cross-piece, which projected beyond the sides and was notched or turned up at the ends [3]. The handles were as in Type II, and were usually

[1] Other models (which have come into the Museum since 1899) show a stern-piece curving forward.

[2] It is possible that this is purely a ceremonial conception, and is not a representation of actual practice.

[3] In some cases (*Deshasheh*, XXVII), the lower wing of the blade of the rudder was pierced, and fastened to the stern with a rope tied in the hole.

held by a single steersman. The mast-rest is not found on these boats, and is, in fact, inconsistent with their special use for back-water navigation.

4. CREW.

The crew does not vary from that of the boats of Type II, — look-out, steersman, paddlers or rowers, who also appear as sailors. Three of the models are rigged for sailing (nos 4803, 4804 and 4808), two have rowers (nos 4807 and 4911); and two have paddlers (nos 4880 and 4881). In general this type of boat does not have a large crew; and in the known examples including those of the reliefs, paddlers are more frequent than rowers.

The owner is almost always represented. This is, no doubt, due to the fact that this type of boat was always used singly, as a pleasure boat, and never as a tug-boat.

5. FURNITURE.

The papyrus-shaped boats all have a cabin or canopy to shelter the owner. This canopy is, as a rule, of the same chapel-like form as that of the funerary barks. This seems to indicate that the boats of Type IV were more of a ceremonial nature than the boats of Types I and II.

6. COLORING.

The hull is yellow (or white); sometimes ornamented with a red stripe along the rail (nos 4807, 4880 and 4881). The ends are usually painted in imitation of a bundle of flowers tied with cord in fulfilment of the conception of the structure. The deck is white, without red bars in most of the Museum specimens, with red bars in no 4803 and in those from Abusir.

TYPE V. FUNERAL BARKS.

Form I.	Form II.	Form III.	Uncertain.	Type I as Funeral Bark.
—	—	—	—	—
N° 4811	N° 4915	N° 4917	N° 4925	N° 4952
4847	4916		4926	
4851				
4948				

The characteristic mark of the funeral bark is the presence of a mummy on a bier (nos 4811, 4915, 4917, 4948), a mummiform figure on a throne

(n° 4916), or a coffin (n°s 4847, 4851). The stern and the bow extend into slender projections similar in their suggestion of structural origin to those of Type IV, but do not extend out straight as in that type. There are several different forms representing apparently different local traditions. In Form I (see above), the bow-piece turns up almost vertically (or at right angles to the bow), while the stern-piece curves forward and then up [1]. In Form II, the bow-piece curves back and then forward, while the stern-piece curves forward. In Form III, both pieces are alike, curving back, bending to a horizontal line forwards, and then turning straight up. Other forms occur in the reliefs, see *Beni Hasan*, I, pl. XXIX.

All these forms suggest a papyrus-form boat, but one differing radically from Type IV. In spite of the fact that the Gebrâwi reliefs (Davies, *Deir-el-Gebrâwi*, II, pl. XX) show a papyrus raft used as a funeral bark, and other reliefs from the same place show the papyrus-form boat (Type IV) used in the same way, neither of these is the proper form of the funeral bark any more than is model n° 4952, a boat of Type II used as a funeral bark. The forms which may be called characteristic of the funeral bark are those described above, and they do not seem to be derived either from the papyrus raft or the papyrus-form boat of Type IV, but from some older primitive boat, or rather the survival of some older boat, as preserved in the divine barks of the Old and Middle Empires [2].

The funeral bark is then probably derived directly from one of the types of divine barks of the period in which the funeral bark was first thought of. That period is, so far as can be seen from the reliefs and the dated models, not long previous to the XIIth Dynasty. All our dated material appears to be of the Middle Empire, and the funeral barks of that period are represented on the reliefs as used for the actual conveyance of the body to the cemetery. It is usually towed by a boat of Type II.

1. HULL.

Whatever the material and the technique of the primitive original, the funerary bark of the Middle Empire was constructed of wood in the same manner as the boats of Types I and II, — mortised planking with deck framework. The two Dahshur boats (n°s 4925, 4926) are shown by the double

[1] This form also occurs in the reliefs, *Beni Hasan*, I, pl. XIV.

[2] Cf. the hieroglyphic for divine bark in the Mer-ib tomb in Berlin, Lepsius, *Denkmäler*, II, Bl. 20, also *Medum*, pl. XII, and *Royal Tombs*, II, pl. X and XI.

rudders, the hawk-headed rudder-posts, the traces of posts at bow and stern, and the coloring, to have been funeral barks of this type. The hull is constructed of mortised and tied planking [1]. There are no internal ribs, but only cross braces, which appear to have borne the deck planking. The form of the hull is strikingly like that of the Dongolawi river boat of the present day.

2. DECK.

Many of the models (n°s 4811, 4847, 4851 and 4948) show the same color scheme on the deck as the boats of Type II, — red bars with white spaces. These have the long beam (red bar) in the long axis of the boat, and all but n° 4911 have a mast space in the middle or slightly forward of the middle. It may be that this feature is merely taken over blindly from Type II, for the Dahshur boats have no long middle beam, and the other three models (n°s 4915, 4916, 4917) have the deck colored according to the structure of the Dahshur boats. That is, n° 4915 shows a white deck with one red bar at each end of the midship section; n° 4916 the same with rail also colored red; and n° 4917 white mid-ship deck with red rail and three white spaces at each end enclosed with red bars. None of these three show a longitudinal deck-beam.

3. RIGGING.

None of these models are represented as being paddled or rowed; and only one bears a mast, — n° 4948. This boat has a mast with two spars and bits of sail, and seven sailors in characteristic attitudes. The boats n°s 4847 and 4851 have a mast space marked on the deck, but no mast-hole; and in n° 4847 this mast space is in fact covered by the coffin. In the reliefs of this period, the funerary barks are represented as being towed by ships of Type II. No doubt the models of the funerary barks were also conceived as being towed, and were, in almost all cases, accompanied in the grave by models of Type II.

Owing to the form of the stern, the funerary boats were steered with two rudders tied to two rudder-posts and to a crosswise rudder-rest, as in Type IV. The rudder-posts in the Dahshur models were joined near the top with a cross piece on which the upper ends of the rudders appear to have rested, being tied of course as in the other cases. Normally, each rudder-post and each rudder

[1] So far as I was able to learn, the greater part, if not all of the dove-tail joints, are modern. At any rate I so understood M. Barsanti.

bore a hawk's head on the upper end; but in some of the models these heads were omitted.

4. FURNITURE.

In accordance with their function, the funerary barks bear in all cases a canopy covering a coffin or a simulacrum of the mummy. Each of the three from Saqqarah, n°s 4915, 4916, 4917, also has a table of offerings. In n°s 4915 and 4916, there is a libation vase on the table, and a large jar (of wine or beer) on a ring-stand beside the table. So also three are figures appropriate to a funeral scene, — wailing women (n°s 4811, 4915, 4917), priest with roll of papyrus (n°s 4915, 4916), priest with censor (n° 4948) and mourners (? n°s 4811, 4847, 4851).

5. CREW.

In addition to the figures of wailing women, priests and mourners, just mentioned, the funeral barks bear normally only a look-out and a steersman, the only working crew necessary to a towed boat. N° 4948, conceived as sailing, has seven sailors; and n° 4851 has nine figures (*k*) squatting on the deck (in addition to the six (*i*) about the coffin), which may represent rowers at rest.

6. COLORING.

The coloring of the funerary bark is as characteristic as its other features. The hull is green, light green, or in one case (n° 4917) yellow. The normal color appears to be the funereal green. The bow and stern pieces are yellow in n°s 4811, 4851 and 4948, blue-green in n° 4847, and the same color as the hull in n°s 4915, 4916 and 4917. All except the Saqqarah boats (n°s 4915, 4916, 4917) have narrow stripes of various colors outside below the rail, and an *udat*-eye on each side of the bow. Even the rudder-posts showed a preference for green and yellow instead of the red and white of the other types. The rudders were almost always elaborately painted with open flowers, or with *udat*-eyes, or both. In one case, *Beni Hasan,* I, pl. XVI, the tomb scenes show boats of Type II, with rudders decorated with representations of flowers; but in the models this form of decoration (especially the *udat*-eye) seems to be reserved for the rudders of the funerary bark.

The coloring of the figures and of the furniture does not present any unusual features.

TYPE VI. PRIVATE SUN-BARKS.

There are in the catalogue three models of sun-barks from private tombs, — nos 4949 and 4953 from Bersheh, and n° 4860 from Meir. The two Bersheh barks are of the XIIth Dynasty, and the Meir bark is of unknown date, but probably also XIIth Dynasty. This bark, without rigging or crew of any sort, bears only symbolical, or magical, objects. The characteristic mark, so far as the form is concerned, is the hanging cover on the bow, and the traces of a curtain adjoining it.

An examination of the divine barks represented in the temple reliefs and of the stone models shows two distinct forms, — one with recurved uprising ends, and one with curtained bow. The first of these seems to have given rise to the funeral bark, the second to the sun-bark. The division of divine barks into two distinct forms, for which I do not venture to offer an explanation, is, no doubt, very early. The curtained form is apparently represented on the early dynastic ivory tablets (see *Royal Tombs*, II, pl. XI, etc.), and possibly even in Green's Tomb at Hierakonpolis[1] (*Hierakonpolis*, pls. LXXV-LXXIX), while the other form is that of the hieroglyphic for divine bark as early as the IIIrd Dynasty.

In spite of the antiquity of the curtained form of the divine bark, the private sun-bark is as yet unknown previous to the Middle Empire, and probably had its origin in the development of the cult of the dead otherwise proved for that period. Even in the Middle Empire the private sun-barks are not numerous. I know of no representations on the walls of the tombs, nor of any models except those in this catalogue. Unfortunately we know nothing of the catalogue numbers except that they were found at Bersheh and Meir.

1. HULL.

The hull of the sun-bark resembles that of the funeral bark except in the form of the bow and stern-pieces. The bow-piece in n° 4860 appears to differ materially from that of nos 4949 and 4953, but the holes on the inner edges contained bits of string, and the holes along the top of this part of the post may also have borne strings. I am inclined to believe that these strings carried a sort of bead-work curtain falling along the sides of the bow-pieces, and

[1] The Hierakonpolis boats are colored white like the Bersheh models.

presenting a box-like appearance. In other words, the box-like cover on the bow-post in n°s 4949 and 4950 represent a bead-work (or cloth) curtain (see also in this connection the stone barks n°s 4924 and 4930). Thus the difference between n° 4860 and the other two would consist mainly in the presence of the upright round piece above the curtain. The stern-piece on n° 4860 is missing. That on the Bersheh boats rises in a square shaft and curving outwards becomes semi-cylindrical.

2. DECK.

The deck is white in all three examples; but in the Bersheh examples it is marked with red bars representing the framework. N° 4949 has longitudinal middle bar, but not n° 4953. The rail is very low in all three cases; and in n° 4860, it is marked with black lines as if bound with a thong.

3. RIGGING.

The divine barks, being guided by magic or the divine will, require no other means of propulsion nor of guidance. In later representations, however, they are provided with rudders, like the funerary barks.

4. FURNITURE.

All three examples present the same series of symbolic or magical objects. These are five in number, taken from the bow backwards : — (1) a board with nine *maat*-feathers; (2) a box-like object lying on the side with four finger-like black posts on each side and a hawk on the end, looking up; (3) a spool-shaped object on end with two hawks and three black sticks on the upper end (in n° 4860, this is possibly square); (4) a rectangular block with a *šemes*-sign on the front; and (5) a box-like object on end with four black posts in the upper end. The bow cover was also decorated with upright sticks (see n° 4954), and with other objects (see figure of Horus as child, n° 4964).

5. CREW.

The models of sun-barks do not have any crew nor any figures. The pictorial representations in the Book of the Dead and elsewhere sometimes show the dead riding in the solar bark, and the divine boats have figures of the gods, in some cases with a god acting as steersman.

6. COLORING.

N° 4860 has a green hull like the funeral barks, with white ends and a red and a white stripe along the rail. The rail is yellow with diagonal red lines : the deck white : and the bow-piece variegated in color. The Bersheh examples n°s 4949 and 4953) have white hulls, white decks with red bars, blue and white bow cover, and black and white stern-piece.

With the small material, it is difficult to determine the normal coloring, although it is probably white, not green. If the green of n° 4860 is not due to a mere confusion with the funerary bark, it may mark a difference in function between the two kinds of sun-barks : for in all the boat models, the color is significant either of structure or of function.

VII. DIVINE BARKS.

There are six models of divine barks in the Museum, — five of stone and one of wood. N° 2924 is a large granite boat; n° 4930, a large limestone boat. Both are from Mitrahineh, evidently from a temple. The small stone boats, n°s 4919, 4922, 4923, 4974, and 4975 are of unknown provenance; but similar boats are found in graves of the Middle Empire and in town sites. N° 4923 has an hippopotamus on the top, while n°s 4919, 4922 and 4975 have a cabin-like object. The wooden boat, n° 4929, a New Empire papyrus-form boat from the Tomb of the Priests of Amon at Thebes, has an empty wooden chapel on the deck, and is elaborately painted with *udat*-eyes on the bow, green and red stripes along the side, and a black keel, all on a yellow background.

These models, although small in number, show the two forms of divine barks mentioned above (see p. XXV), (*a*) that with recurved ends of papyrus-form and (*b*) that with curtained bow. The latter type is that of the large divine boats of the temples. The papyrus-form type is more especially connected with funerary rites and the Under-World.

VIII. NEW EMPIRE BOAT MODELS.

The only New Empire boat models, aside from the boat found in the Tomb of the Priests of Amon (n° 4929), were the models found in the royal tombs of Amenophis II and Thothmes III at Thebes. These are all shown by their

decorations to be more or less ceremonial in character but are scarcely to be called either funerary or solar barks. They were fitted with long lines of rowers, cabins, landing planks and other implements inconsistent with their identification as funerary or solar barks. Nor are they of the form of such barks shown in the papyri and the reliefs of the period. The form is manifestly derived from that of Type IV and the function is no doubt the same — that of pleasure boats in this case for the use of the king. The practical boats and ships of the period are to be found in abundance in the reliefs of the New Empire. But models are not to be found; and a discussion of the boats and ships of later times, however interesting, lies outside the present field, that of boat-models.

Before closing this introduction, it is necessary to give two explanations in regard to the descriptive catalogue. In the first place, the n°s 4944-4946 and 5034-5200 have already been sufficiently described by M. Daressy in the *Catalogue général* in the volume entitled *Fouilles de la Vallée des Rois,* which is refered to in the text as Daressy, *Fouilles,* but are repeated here for the sake of completness. At the time the present catalogue was made, M. Daressy's work of assembling the scattered parts was unfinished. When he came to make the catalogue in the *Fouilles,* he very properly grouped the objects in classes and renumbered them. I have given under *Bibliography* the reference to the new number, except in a few cases where the object could not be identified.

The second explanation concerns the discrepancies which will be noted between the descriptions and the representations on the plates. These are due partly to faults of restoration, which I trust have been sufficiently noted in the text, and partly to the almost unavoidable displacement of parts during the removal from the old to the new museum. The text was prepared in 1898 at the old museum in Giza; and in all discrepancies, it expresses the result of my personal examination of the model.

CATALOGUE GÉNÉRAL

DES

ANTIQUITÉS ÉGYPTIENNES

DU MUSÉE DU CAIRE.

MODELS OF SHIPS AND BOATS.

4798. Model of ship with rowers and mast. — Wood. — Length 0 m. 95 cent., width 0 m. 165 mill., height amidships 0 m. 09 cent., height mast 0 m. 42 cent. — Meir, Summer, 1892 (pl. I).

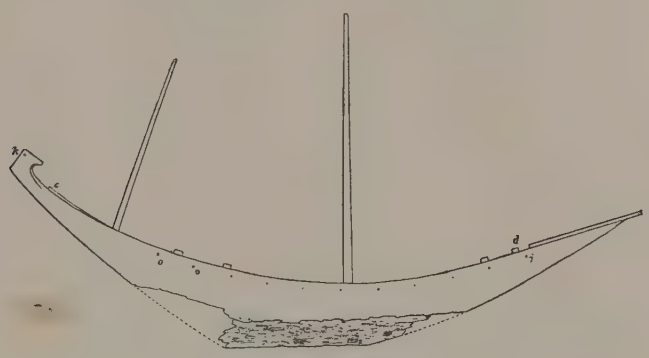


Fig. 1. — Profile.

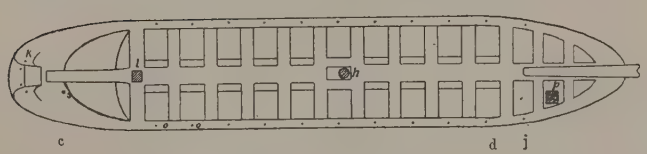


Fig. 2. — Deck-plan.

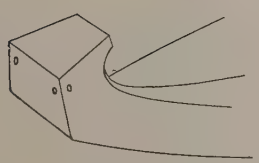


Fig. 3. — Stern.

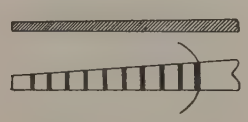


Fig. 4. — Bow-stick.

Hull (fig. 1, 2) : High round stern curling forward at end (fig. 3). Bow, more pointed, with projecting stick (fig. 4). Bottom flattened to make the ship stand. The upper

side (deck) is hollowed out on each side from *c* to *d*, shallower near *c* and *d*, deeper in the middle, leaving a beam-like ridge along the middle of ship (fig. 5, 6). The beam contains slots (fig. 5) at regular intervals to receive the cross sticks (10 in number) serving as seats (*g*) for rowers. Of these seats, the last two on each end are elevated on account of shallowness of hollow.

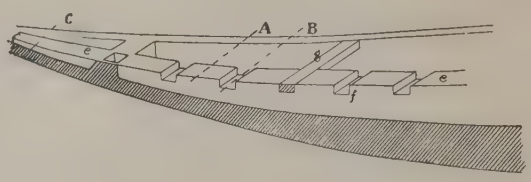


Fig. 5.

Fig. 6.

Rigging : One mast, set in hole in beam at *h*. Upper part has five eyes on each side and one at top for holding ropes (fig. 7). A few small pieces of string cling to the tip of mast. At *j* is a pair of holes, one on each side of ship, apparently for fastening

Fig. 7. — Mast tip.

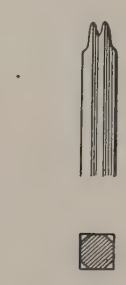


Fig. 8. — Rudder-rest.

Fig. 9.

Fig. 10.

ropes. At *k* is also a pair of holes either for fastening ropes or for holding the rudder (?). At *l* is the rudder post (fig. 8). The oars (fig. 9) were held by strings or wires through the holes (fig. 10). The rudder is gone.

Crew : At *p*, figure of man standing with lifted hands (fig. 11). Sitting on the cross seats, twenty oarsmen with outstretched hands, ten on each side, facing the stern (fig. 12). In the stern, at *s*, a sitting figure, the steersman, with outstretched hands which originally held the hanging handle of a rudder (fig. 13).

Fig. 11. — Lookout.

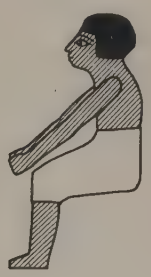


Fig. 12. — Rower.

Fig. 13. — Steersman.

Coloring : Ground color of hull, dark red. At stern, bow and along edge of side (rail) black marks as ornamentation (fig. 14). Along edge of middle beam, in stern and bow, white spaces. The rudder post is red. The mast is light yellow with red tip and two red rings below tip. Eyes of mast, red. Oars, unpainted. All figures have black wigs, red skin, white skirts. Eyelashes, eyebrows, cosmetic stripes, iris, black. White of eye, white.

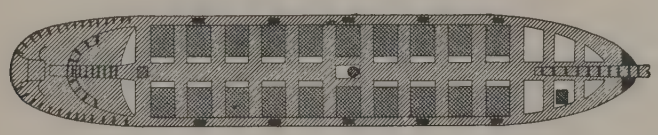


Fig. 14. — Color plan.

Technique : Hull cut out of solid block. Seats rest in slots in middle beam, and are only held by coat of plaster which covers boat. Mast and rudder post rest in holes. The figure in bow, also stands in a hole. The other figures are held by small wooden pegs. The arms of the figures are fastened on by small pegs. Each figure of a rower has a number on the bottom, in red ink for the right side looking towards the bow, in black ink for the left side. The whole covered with thin coat of plaster and painted.

Preservation : First pair of rowers from the bow, the rudder, the sail and the spars, are gone. The lower part of hull is badly worm eaten.

Bibl. : *Journal d'entrée du Musée*, n° 30213 (?). *Cat.*, 1895, n° 782. *Zeit. für ägypt. Sprache*, vol. XXXIII (1895), p. 24-32.

4799. Hull of a ship. — Wood. — Length 1 m. 76 cent., width 0 m. 21 cent., height amidships 0 m. 095 mill. — Meir, 1892 (pl. I).

Hull : Very long, with high round stern (fig. 15). Bow more pointed. Bottom flat, like n° 4798.

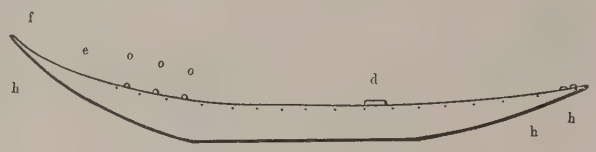


Fig. 15.

The upper side is hollowed cut like n° 4798 except at bow (b) and stern (c). Cross sticks for seats like n° 4798. Only the last three in stern have small blocks to elevate the rowers on account of shallowness of bottom (fig. 16).

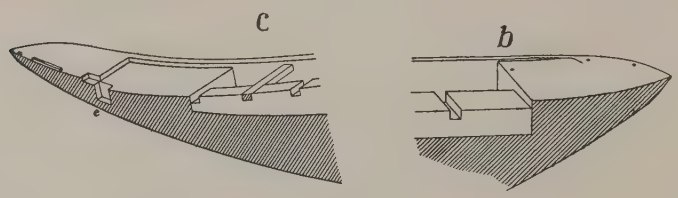


Fig. 16.

Rigging : One mast-hole at *d;* hole for rudder post at *e;* hole for rest for rudder (or perhaps mere ornamentation) at *f;* a hole (beside *e*) for rest for mast. Holes for fastening ropes, in pairs one on each side at *h*. Oars fastened as on n° 4798 (o).

Crew : Figure of man standing, in bow, left foot advanced. Thirty rowers, fifteen on each side. Steersman in stern. Rowers and steersman missing; positions indicated by pegs.

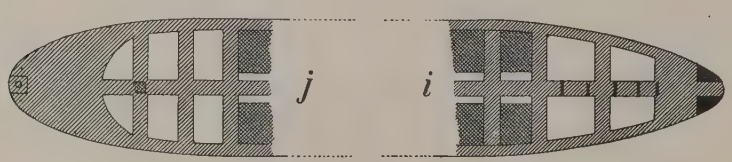


Fig. 17. — Color plan.

Coloring : Ground color, red. Five black spots on the rail on each side like n° 4798 (fig. 17). Bow (i). Stern (j). Middle beam, white and dark red, like n° 4798. Feet of figure in bow, red.

Technique : Solid block like n° 4798. Seats, like n° 4798, but fastened with wooden peg in center to middle beam. The grooves in middle beam for seats were wrongly cut at first (for 40 rowers); the false grooves are now filled with plaster or wood. The mast rested in a hole and was supported by a block closed with a pin (fig. 18)[1]. The block was fastened by two pegs. The rest for the mast when lowered stood at *g*. The rope holding the mast to the stern passed through the holes *h* and around bottom of stern. The rowers and the steersmen were fastened by pegs. The outlook in the bow was set with end of each leg in a hole and the feet were of separate pieces, held in by pegs. The whole was covered with thin coat of plaster and painted.

Fig. 18. — Mast-block.

Preservation : Plaster and coloring, gone in places. One seat gone.

Bibl. : *Journal d'entrée du Musée*, n° 30218. *Cat.*, 1895, n° 784. *Zeit. für ägypt. Sprache*, vol. XXXIII (1895), p. 24-32 (by Christian Belger).

4800. Model of a ship with rowers. — Wood. — Length 0 m. 865 mill., width 0 m. 16 cent., height amidships 0 m. 085 mill.

Fig. 19.

Hull : Shaped similar to n° 4798. Upper side hollowed out like n° 4798. Seats, like n° 4798, eleven in number, of which the last three towards the stern are elevated.

Rigging : Hole for mast between 6th and 7th seats. Rudder post, like n° 4798. Holes for fastening oars, like n° 4798.

Crew : Thirteen rowers, originally 24, similar to n° 4798 (fig. 19)[2].

Coloring : Like n° 4798. The only difference is in the square containing the mast which is red (fig. 20). The figures also have black side-beards.

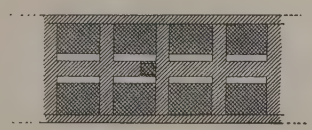


Fig. 20. — Color plan.

Technique : Like n° 4789.

Preservation : Stern and bow destroyed and left side up to 7th seat.

Bibl. : *Zeit. für ägypt. Sprache*, vol. XXXIII (1895), p. 24-32 (Christian Belger).

4801. Model of a ship with rowers. — Wood. — Length 1 m. 87 cent., width 0 m. 21 cent., height amidships 0 m. 10 cent. — Meir, 1892 (pl. II).

Hull : Similar in form to n° 4799. Upper side hollowed cut like n° 4799; bow (a) and stern (b) slightly different.

Nineteen cross sticks for seats, like n° 4799.

[1] See *Z. äg.*, XXXIII (1895), p. 27.

[2] These figures are too large for this boat and probably belong to another boat.

Rigging : Mast hole between 8th and 9th seats from bow. Rough mast[1] with cross spar at top. Hole with remains of a post between 13th and 14th seats from bow.

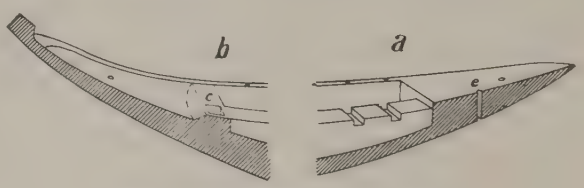


Fig. 21. — Sections of bow and stern.

Hole for square rudder-post at c[2]. A pair of holes behind first seat in bow and another pair in stern (fig. 21, 22) for fastening ropes of mast. Twenty oars originally fastened like n° 4798, now tied along the side[3].

Fig. 22. — Stern.

Crew : Forty rowers, similar to nos 4798 and 4800, with outstretched arms facing the stern[4]. In the bow, holes for fastening a lookout, a standing figure with left foot advanced[5]. In the stern, a hole for fastening a steersman. Very large rudder[6].

Coloring : Ground color, light yellow (fig. 23). Middle beam and seats, red and white, like n° 4806. Four black and red spots along each rail. Bow,

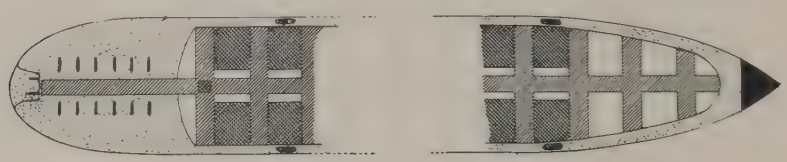


Fig. 23. — Color plan.

stern, rudder, red and yellow. Along sides of ship, outside, opposite the end of every seat a small red mark, like the end of a seat (fig. 25). Crew similar to nos 4798-4800.

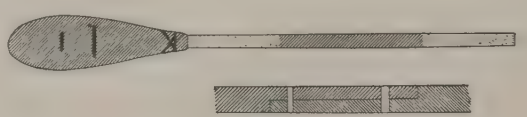


Fig. 24.

(1) Appears not to belong to ship.

(2) A mast-rest has been fastened in this hole with plaster. Uncertain whether this mast-rest is the one which formerly stood at c.

(3) These oars are from at least four different ships.

(4) These rowers are from at least four different ships. The legs have been cut off slanting (in the museum) to make them fit the boat and the figures have then been glued on facing the bow(!).

(5) This figure is gone. A similar figure from another ship has been made fast in the stern with glue and by means of a hole dug in the deck. In one of the holes for the feet of the lookout, the stock of a rudder has been fastened. The blade was either broken or cut off, and the end of the stock has been cut to fit the hole. (This seems to have misled Belger, *Z. äg.*, XXXIII, p. 30, above).

(6) Uncertain whether it belongs.

Technique : Like n° 4799. A piece is set into right side of bow with pegs. Rudder set together (fig. 24).

Preservation : A piece is knocked out of side of stern. See notes 2-7 below.

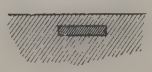


Fig. 25.

Bibl. : *Journal d'entrée du Musée*, n° 30214 (?).

4802. Model of a ship. — Wood. — Length 0 m. 85 cent., width 0 m. 215 mill., height amidships 0 m. 13 cent. — Meir, 1892 (pl. II).

Hull : High stern, curling forward; more pointed bow with projecting stick; flat bottom; like n° 4798. Deck (*d* to *f*) slightly lower than rail; bow and stern like n° 4798 (fig. 26, 27).

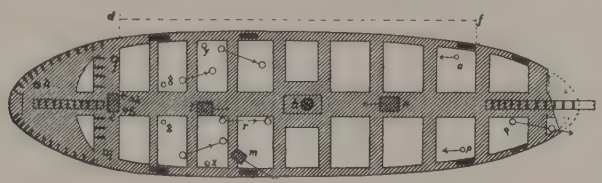


Fig. 26. — Deck plan with colors.

Rigging : At *b*, one small mast, square at bottom, two small and two large holes in tip (fig. 28). At *e*, rudder post like n° 4798. Four holes for posts supporting small roof (open cabin, like n° 4808) (*g*). Two holes *x* and *y*, possibly for fastening ropes.

Fig. 27.

Fig. 28. — Mast tip.

Fig. 29.

Crew : A steersman (h) like figure on n° 4798. At *i* and *j*, holes for sitting figures (?). At *k*, figure of man sitting on chair (simple block) (fig. 29). In front of this, a square hole for a standing figure (*l*). Feet of a standing figure, right foot advanced (*r*). Three other figures, standing with left foot advanced (○⟶○, fig. 30). Standing figure at *m*, facing outwards, right arm hanging, left doubled up (fig. 31). Standing figure at *n* with small board (writing tablet?) under his left arm and bit of linen wrapped around his waist. At *o* and *p*, squatting figures with outstreched hands, like steerman. Lookout at *q*; right foot advanced, right arm raised, left hanging.

Fig. 30.

Fig. 31.

Coloring : Similar to n° 4798. Red stripes where n° 4798 has seats, white where n° 4798 has hollows between seats. Four black spots on each

rail. Stern, slightly different (see fig. 26). Figures, red skin; black hair, *side beards*, eyebrows, eyelashes, cosmetic stripes, iris; white shirt. White of eye, white. See fig. 29, 30, 31.

Technique : Mast, rudder-post and figures, *l*, *m* and *n*, set in square holes. Figures, *h*, *k*, *p*, *o* (i, j) fastened with simple small peg. Hands of figure *m*, bored similar to steersman. The other standing figures, have legs ending in peg-like projection, each fitting in a separate hole; the feet, of plaster. Covered with coat of plaster and painted. Arms of figures, fastened with pegs.

Preservation : Bow and stern damaged. Arms of standing figures amidships lost.

Bibl. : *Journal d'entrée du Musée*, n° 30215 (?). *Cat.*, 1895, n° 780. *Z. äg.*, vol. XXXIII, p. 24-32.

4803. Model of ship. — Wood. — Length 0 m. 78 cent., width 0 m. 15 cent., height amidships 0 m. 10 cent. — Meir, 1892 (pl. III).

Hull : Bow and stern both high, running out into a sort of cylindrical beak (fig. 32). Bottom, flat, like n° 4798. Deck, curving higher in middle, hollowed out slightly near rail (fig. 34). On each side of stern, a hollow for rudder (fig. 33).

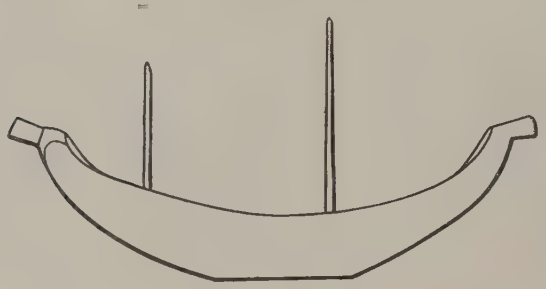


Fig. 32.

Fig. 33.

Fig. 34.

Rigging : A single plain mast (d, fig. 35)[1]. Two rudder-posts, side by side (0 m. 04 c. apart), each like n° 4798 (e, fig. 35).

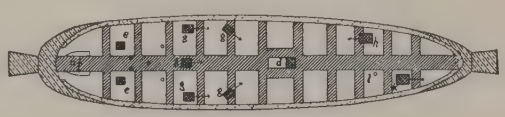


Fig. 35. — Deck plan with colors.

Crew : Steersman (f), squatting like n° 4798. In front of rudder-posts, five holes for canopy and sitting figure, like n° 4802. Five standing figures, with outstretched arms like n° 4798, *q* (g). Scribe (?), with tablet under his left arm (h).

[1] Mast may not belong.

Outlook (?) (k). At *l*, hole for sitting figure (?). The figures are like those on n° 4798. The figure g, has a bit of linen wrapped around the waist.

Coloring : Sides of boat and beaks at bow and stern, green. Rail, yellow. Deck, red bars (beam and cross-pieces) and white spaces (planking). Mast, sets in white spot. See figure 35.

Fig. 36.

Technique : Mast, rudder-posts and figures g, h and k, set in square holes. Helmsman, sits in shallow hollow and is held by a peg. Rests for rudders (c). Arms of figures fastened on by pegs (fig. 36). Covered with thin coat of plaster and painted.

Preservation : Plaster scaled off in places. Beak on bow, slightly splintered.

Bibl. : *Cat.*, 1895, n° 783. *Z. äg.*, vol. XXXIII, p. 24-32 (C. Belger). *Journal d'entrée du Musée*, n° 30216 (?).

4804. Model of a ship. — Wood. — Length 1 m. 18 cent., width 0 m. 11 cent., height amidships 0 m. 045 mill. — Akhmim (?) 1889 (pl. III).

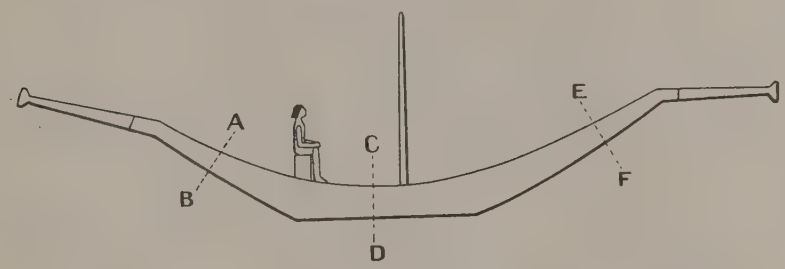


Fig. 37. — Profile.

Hull : Bow and stern, drawn out long and slender with button on end. Deck, slightly curving, deeper near the side. Bottom flat (fig. 37, 38, 39).

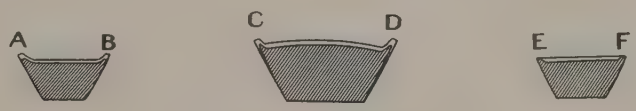


Fig. 38. — Three sections.

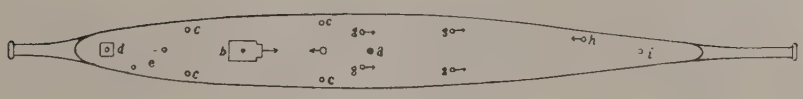


Fig. 39. — Deck plan.

Rigging : Simple mast at *a*. Hole for rudder-post (d).

Furniture : Originally a canopy over the sitting figure *b*. There is a pair of holes in front and a pair behind him for the posts (c).

Crew : Two holes for steersman, standing, left foot advanced (e)[1]. Figure sitting with hands on knees, short wig and short skirt; chair is a simple block (b′, fig. 40). In front of sitting figure, facing it, figure standing feet together, hands crossed on breast right over left, with short skirt and without wig (f)[2]. Behind and before

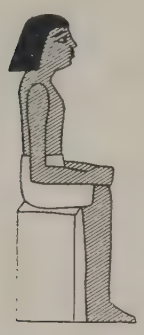


Fig. 40. — Owner.

Fig. 41. — Paddler *g*.

Fig. 42. — Squatting lookout.

mast, four figures, in two pairs, kneeling on one knee, with outstretched arms, dressed like *f*, facing bow (?) (g, fig. 41)[3]. Standing figure, left foot advanced, holding tablet in both hands (as if for the sitting figures (g) to read), facing stern, no wig, skirt longer than *g* (h). At *i* is a hole, for lookout, possibly the squatting figure, fig. 42. Total crew nine, now eight.

Coloring : Boat and mast, pinkish white. Figures, black wig, or hair, dark reddish brown skin, white skirt. Eyebrows, eyelashes, iris, black. White of eye white. Throne and writing tablet, white.

Fig. 43.
Fastening of bow-piece.

Technique : The bow and stern pieces are of separate pieces set in by means of tongue and slot (fig. 43) and fastened with reddish plaster. All figures except steersman and scribe are fastened on with pegs. Steersman and scribe, fastened by peg-like prolongation of legs. Arms are set on by means of pegs. The hands of the figures *g* and *j* are pierced. The writing tablet is fastened by pegs, one in each end, to hands of scribe (fig. 44). Covered with plaster and painted.

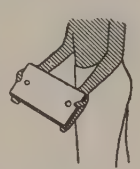


Fig. 44.
Tablet pegged to hand of priest.

Preservation : Much of plaster peeled off. Head and foot of scribe damaged. See notes below. Left arm of one of the figures *g*, gone.

Bibl. : *Journal d'entrée du Musée*, n° 29025 (?). *Cat.*, Maspero, n° 6235. *Cat.* (Grébaut), 1892, p. 59.

(1) Figure 42, glued over one of these holes.
(2) Stood facing in wrong direction; peg whittled down to make it fit.
(3) Two back figures were fastened with glue over the two front holes for canopy-posts; pegs whittled down to make them fit. Five of the arms on these figures are from other figures.

4805. Model of a ship with rowers. — Wood. — Length 0 m. 60 cent., width 0 m. 14 cent., height amidships 0 m. 11 cent. — Meir, 1892 (pl. IV).

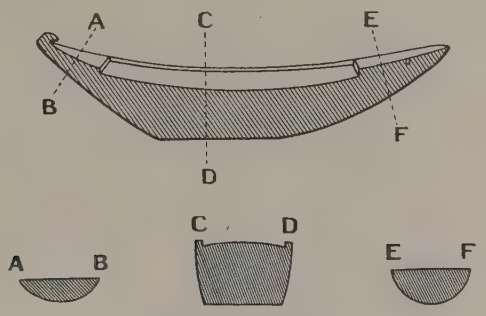


Fig. 45. — Four sections.

Hull : Similar to n° 4802. Upper side, hollowed out slightly except at bow and stern (fig. 45). Stern curling forward. Projecting stick (mast-rest) in bow (now lost) (fig. 46).

Rigging : Hole for mast (fig. 47, b). Single rudder-post (c) shaped like n° 4798 [1].

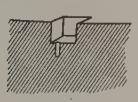


Fig. 46. — Hole for mast, section.

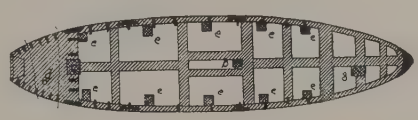


Fig. 47. — Deck plan.

Crew : In stern, a steersman, sitting figure, like on n° 4798 (d). Ten square holes (e) [2]. In the bow, a standing figure, feet together, short wig and skirt (h, fig. 48), left arm hanging, hand open, right arm extended (?).

Fig. 48. — Lookout.

Coloring : Sides, yellow. Rail and stern, red with black marks. Deck, in front of rudder-post, white (planking) with red stripe down the middle (middle beam) and red cross stripes (seats or cross beams) (see fig. 47). Stern post, red with black marks near base on all four sides (fig. 49). Figures, like n° 4789; black side beards.

Fig. 49. — Foot of stern post.

Technique : Stern of separate piece, set on with wooden pegs. Mast (mast was also held by peg in bottom of hole), rudder-post and all figures, except steersman, set in square holes. Steersman held by a peg. Arms of figures fastened by pegs. Covered with plaster and painted.

[1] Cf. n° 4831.

[2] For rowers. The nine figures registered as figures; n° 4806 were glued in nine of these holes; but as these figures were fastened with pegs and as there are no peg holes near these square holes, the figures must be from another boat.

Preservation : Bow piece gone. Plaster gone in places. Arms of steersman gone.

Bibl. : *Journal d'entrée du Musée*, n° 30217 (?). *Cat.*, 1895, n° 781. *Z. äg.*, vol. XXXIII, p. 24-32 (Christian Belger).

Fig. 50.

4806. Nine rowers from model of ship. —Meir, 1892 (pl. IV).

Nine rowers from model of ship, each sitting on a small block or stool (one piece). Arms outstretched. Black wig, red skin, white skirt; eyebrows, eyelashes, iris, side-beard, black. White of eye white. On back of stool, numbers or letters in black ink, now illegible. Arms fastened with pegs (but now mostly on the wrong figures). Stool, yellow (fig. 50).

4807. Model of ship with rowers. — Wood. — Length 1 m. 40 cent., width 0 m. 115 mill., height amidships 0 m. 13 cent. — Bought at Luxor (pl. IV).

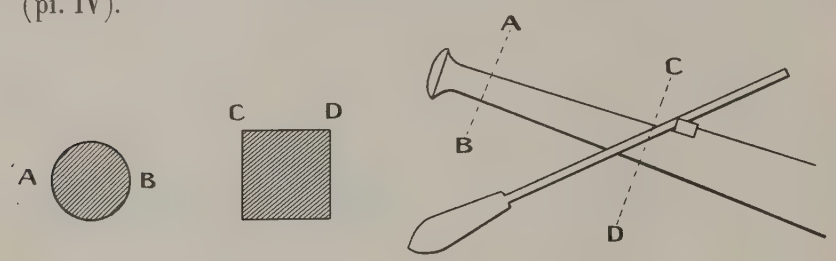


Fig. 51. — Profile of stern and two sections.

Hull : Similar to n° 4808; but the bow and stern are round and thick, much thicker than n° 4808. The end of the button is also round (fig. 51). The low rail runs from

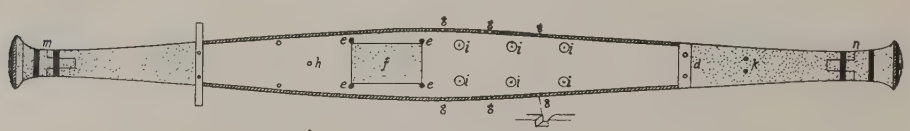


Fig. 52. — Deck plan.

rest for rudders to the corresponding place on bow (longer than n° 4808 and lower, fig. 52). Where the rail ends on the bow are two peg holes and the marks of a cross-piece (d) enclosing the space between the rails as the rudder rest does at the stern.

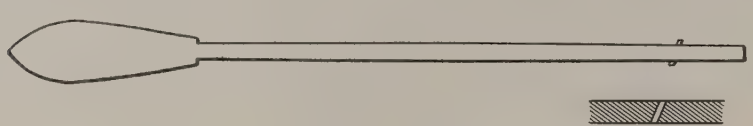


Fig. 53. — Rudder.

Rigging : No trace of mast. Double rudder posts and rest, like n° 4808. Two rudders (fig. 53) each with hole near the end. Square slots for oars, in rail, three on each side (g).

Furniture : Just back of middle, four holes for canopy (e)[1]. Between them, a block (as bier for a mummy-figure) (f).

Crew : Steersman (h), squatting figure with short skirt (fig. 55). Rowers (i), six, three on each side, very rough sitting figures with white skirts and outstretched arms (fig. 54). At *k*, two holes, probably for look out.

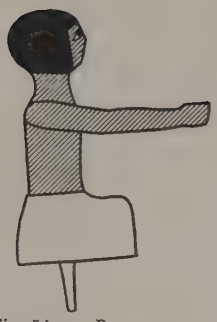


Fig. 54. — Rower.

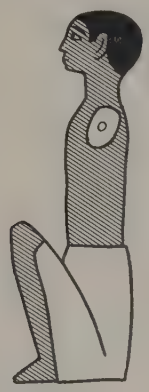


Fig. 55. — Steersman.

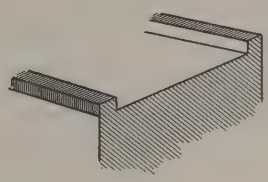


Fig. 56. — Coloring of rail.

Coloring : Hull, yellow. Red stripe along rail (fig. 56). Block *f*, yellow. Around stern and bow, two black rings on each (m and n). Button on stern and bow, black and red on yellow back ground (fig. 57). Figures, black hair, eyelashes and iris, brown skin, white skirt. White of eyes white.

Fig. 57.
Colors on end.

Technique : Cut out of solid block. End of stern and of bow set on with tongue and slot (fig. 58). Rudder-rest and corresponding piece in bow, fastened on with pegs. Rudder-posts and posts for canopy set in holes. Figures, block under canopy, fastened on with pegs[2]. Rudder on right fastened by pegs to rudder-post and to hull; rudder on left only to hull. The arms of the rowers are of linen stiffened with plaster, fastened in a groove across back of figure and painted (fig. 59). Rowers, very rudely cut. Arms of steersman, set on with pegs.

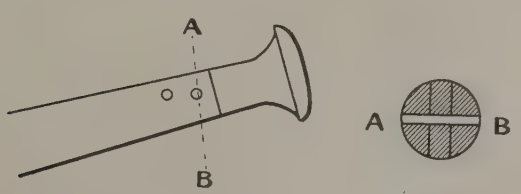


Fig. 58. — Slot joint on bow.

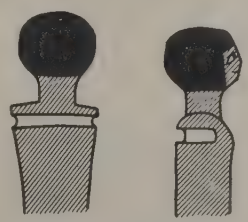


Fig. 59.
Groove holding linen arms of figures.

Preservation : Colors, rubbed. Left rudder-post and arms of all figures, are missing.

Bibl. : *Journal d'entrée du Musée*, n° 28836 (?).

[1] The posts and canopy which are on this ship do not belong, see n° 4809.
[2] These pegs and the corresponding holes are modern.

4808. Model of ship. — Wood. — Length 1 m. 52 cent., width 0 m. 173 mill., height amidships 0 m. 105 mill. — «Haute-Égypte», 1891 (pl. IV and XXIX).

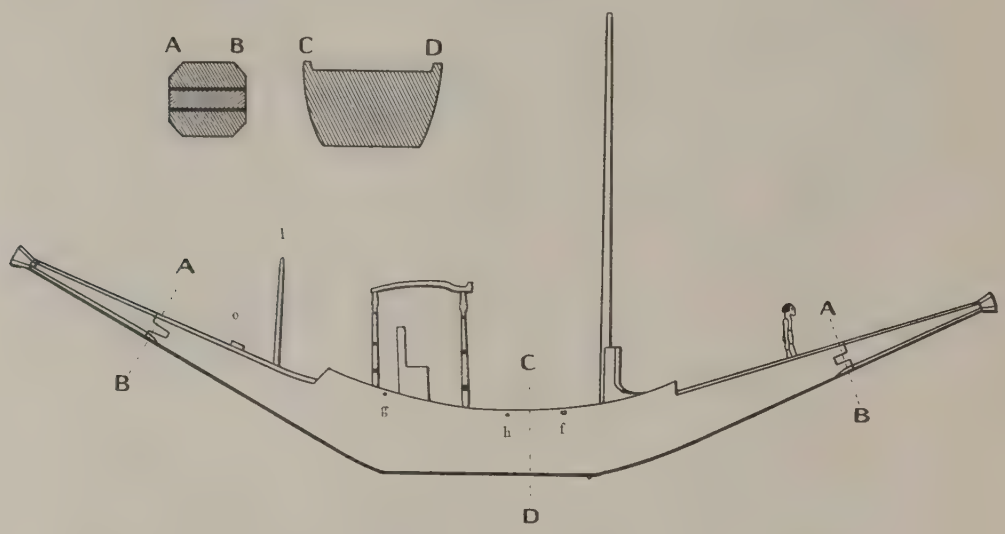


Fig. 60. — Profile and sections.

Hull : Stern and bow drawn out long and slender and terminating in a button. Stern

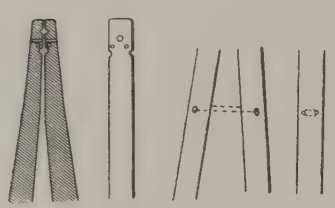


Fig. 61. — Mast.

Fig. 62. — Crossbar behind mast.

Fig. 63. — Hole *g* and *h* through rail.

higher than bow. Bottom, flat. Edges of bow and stern, beveled (fig. 60, A-B). Low rail, amidships (fig. 60, C-D).

Fig. 64. — Holes through bow and stern.

Rigging : Tall double mast resting in two shoes. The two pieces meet above on an oblique surface (fig. 61) and are held together by two crosses pieces and a peg. Through the tip, four holes for ropes and about one third down a pair of holes (fig. 61). Just back of mast, a small wooden cross-bar (f), pierced by two holes (fig. 62). Behind this, two pair of holes slanting through rail (fig. 60, *g* and *h*) (fig. 63). In bow, one hole through top (fig. 64 left)

and in stern, one through each side (fig. 64 right). A pair of rudder-posts (l) and a rest (fig. 65).

Furniture : Just back of middle, canopy supported by four columns. Under canopy, a chair (fig. 66).

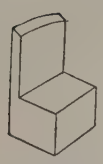


Fig. 66. Chair.

Crew : One squatting figure with short wig and outstretched hands (fig. 67) just back of rest for rudders (*o*); a similar figure in front of rudder-posts (steersman); another just back of cross bar (f). A lookout stands in bow, right foot forward, arms hanging, right hand open, left closed (fig. 68).

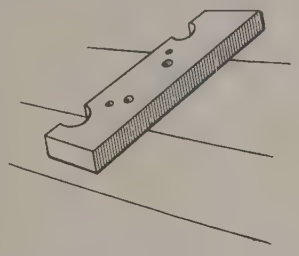


Fig. 65. — Rest for rudders.

Coloring : Hull, yellow. Canopy, yellow and black (fig. 69). Supporting posts, yellow (?) with three black bands. Mast and rudder-post, yellow (?) (traces). Figures have black hair, eyelashes and iris, brown [1] skin, white skirt. White of eye white.

Fig. 67. — Steersman.

Fig. 68. — Lookout.

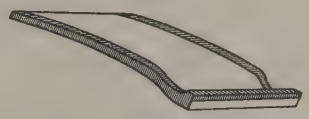


Fig. 69. — Roof of canopy yellow and black.

Technique : Bow and stern of separate pieces, fitted on with tongue and slot and fastened each by two pegs (fig. 60). Long piece set in on left side (looking towards bow) with pegs (from just back of *f* for 0 m. 25 cent.). Two pieces of mast held

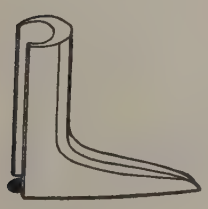


Fig. 70. — Mast-shoe, side view.

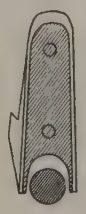


Fig. 71. — Mast-shoe view of bottom.

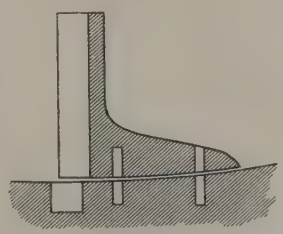


Fig. 72. — Mast-shoe, section.

together by peg in tip and two rectangular cross pieces, one near bottom and one near top. Lower ends of mast, sharpened and rest in two round holes supported by two shoes (fig. 70-72) [2] fastened to deck by pegs. The ends of cross bar (f) rest

[1] See nos 4807, 4910, 4911.

[2] *Z. äg.*, vol. XXXIII, p. 30 (1895) (Christian Belger). Not exact.

in holes through the rail (fig. 60). The posts of the canopy and the rudder-posts rest in holes. The cover of canopy has slots, one in each corner in which tongue-like prolongations of columns rest (fig. 73). The three squatting figures, and the rudder-rest, fastened with pegs. Lookout, prolongation of each foot rests in oblong hole. Arms of figures fastened on with pegs. Hands of three squatting figures and left hand of lookout, pierced. Figures, very rudely cut.

Fig. 73. — Tongue and slot in canopy.

Preservation : Colors, badly rubbed.

Bibl. : *Journal d'entrée du Musée*, n° 29269. *Z. äg.*, vol. XXXIII (1895), p. 30 (Christian Belger).

4809. Canopy from the model of a ship. — Wood. — Length 0 m. 165 mill., height 0 m. 27 cent.

Canopy from the model of a ship[1]. Somewhat similar to that of n° 4808 (fig. 74). Supported by four posts, two of which are gone. Whitened with thin coat of plaster and painted with green spots with black outlines on front and side. Posts, white, painted with green and black rings and yellow rings between. Prolongation of post above fits in hole in roof, below in hole in deck. Roughly made.

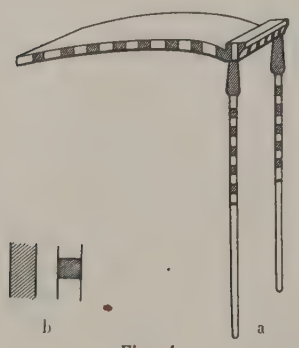


Fig. 74.

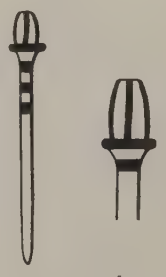


Fig. 75.

4810. Two posts from a canopy from the model of a ship. — Wood. — Height 0 m. 25 cent.

Two posts from a canopy from the model of a ship[2] (fig. 75 a). Painted white with black rings. Top, four black vertical stripes and one small ring (b). Hole in top for peg. Bottom rested in hole.

(1) Was on n° 4807 but does not seem to belong. N° 4810 serve as back posts.
(2) Were used as back posts to n° 4809 on n° 4807.

4811. Model of a ship for the dead. — Wood. — Length 0 m. 61 cent., width 0 m. 16 cent., height amidships 0 m. 10 cent. — Gebelen (?), 1885 (pl. V).

Hull : Bow rises straight up. Stern recurved (fig. 76). Upper side hollowed out slightly, leaving raised surface in bow and stern. Flat bottom from *d* to *e;* the rest round.

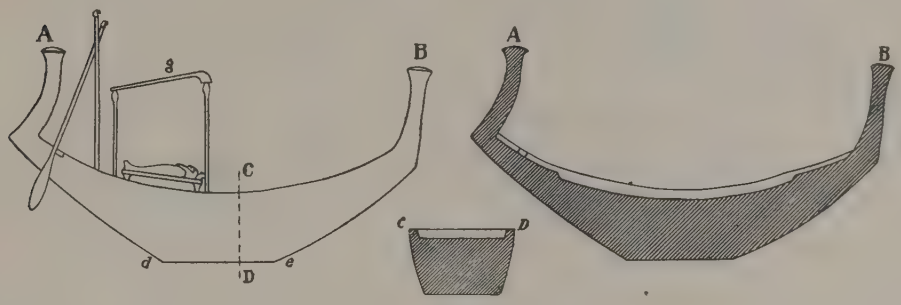


Fig. 76.

Rigging : No mast, no rowers. Two rudder posts, each with hawk's head, joined together by cross piece near the top. Two rudders (one lost) and rest for two rudders (fig. 77).

Furniture : Canopy, roof on four posts (fig. 76, g). Under it a low bed, with four short legs; front part ornamented with lions' heads, one on each side (fig. 78). On the bed, a mummy figure. Holes for lions' tails on rear end of bed; tails gone.

Fig. 77.

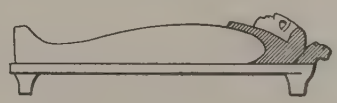


Fig. 78.

Crew : At head of bed, a wailing woman (fig. 79). Wig with queue; long skirt; two rosettes, one on each breast. Four small figures, standing, short wig, skirt with

Fig. 79.

Fig. 80.

Fig. 81.

three cornered apron, extended arms (fig. 81). Another small figure in the same style but without three cornered apron and stooping (fig. 80). The positions of

three figures, are marked by small pegs on the deck (fig. 82, m). Another large peg marks the position of some object in the bow (n) [1]. One figure glued on at (o).

Coloring : Hull, green with *udat* eye on each side of bow and a green, a white and a red stripe along top. Stern and bow, yellow, each with three greenish blue rings adjoining each other (fig. 82, 83). Deck, white with red bars and red middle stripe, similar to n° 4797; but no white rectangle for mast.

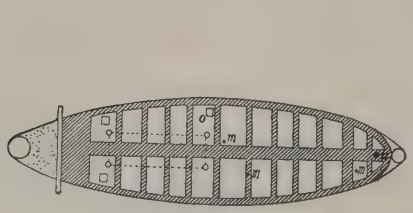


Fig. 82.

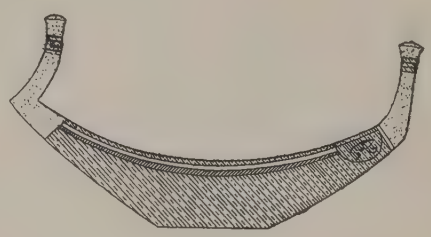


Fig. 83.

Rudder, hawk's head with green wig, white face and black eyes and eyemarks (fig. 84). The stem has red, green and small white and black bands. The blade is ornamented like that of the ship for the dead in Steindorff's *Das Grab des Mentuhotep*, pl. XI; but apparently without the rosettes.

Fig. 84.

Rudder-post, hawk's head similar to rudder. Stem with white, green and red rings irregularly arranged.

Canopy-cover, green. Posts, with white, green and red rings similar to rudder-posts. Bed, white. Lions' heads, green. Mummy, — green wig, white skin, black eyebrows, eyelashes, iris, side-beard. Green and red bands between plaits of wig on breast. Woman, white wig and skirt, yellow skin, black rosettes on breast, black eyelashes, eyebrows and iris. White of eye, white. The other figures like those on n° 4798.

Technique : Upright part of bow, fastened on with pegs, being irregular in form as if accidentally broken off and set on again. Two small pieces set in rail, one on each side, just back of rudder-posts. Rest for rudder, set in slots in rail and fastened with pegs. Rudder-posts, posts of canopy, legs of bed, set in holes. Figures, fastened on by pegs, one peg-hole in each, sometimes in left foot sometimes in right. Covered with plaster and painted.

Preservation : Plaster badly scaled off. Arms of figures mostly, gone.

Bibl. : *Journal d'entrée du Musée*, n° 26612 (?).

[1] Sitting figure n° 4812 rests at this place.

4812. Figure, sitting on throne, from the model of a ship. — Wood. — Height o m. 115 mill. (pl. V).

Figure, sitting on throne, from the model of a ship[1]. Arms wrapped up in long garment. Head, shaved. Face yellow; head, red (?); eyebrows, eyelashes, iris, black; garment, white; throne, white and black. Hole for peg in bottom. Covered with thin coat of plaster which has mostly fallen off (fig. 85).

Fig. 85.

4813. Hull of model of a ship. — Wood. — Length o m. 55 cent., wide o m. 095 mill., height amidships o m. 052 mill. (pl. V).

Hull of model of a ship. Long slender pointed bow; stern, shorter and higher. Hollow from end to end. Bottom, flat. Fourteen seats, formed by cross sticks. The first five seats in stern and the first six in bow are formed by two cross sticks, one nearly over the other (fig. 86).

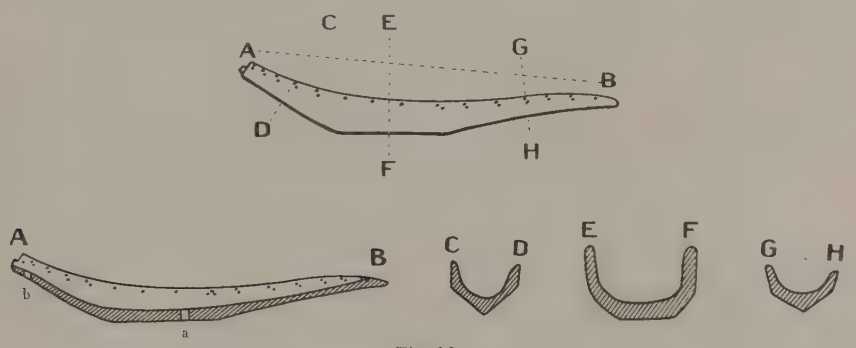


Fig. 86.

Rigging : Hole for mast (a) now filled by butt of mast (sawed off?). Hole for rudder post (b).

Crew : In fifth, sixth and eighth seat (lower stick) from stern, a pair of holes, one near each end. Fifth seat has extra hole near left end; sixth, small one near middle. Bow, trace of extra-cross piece. Tip of bow, pair of vertical holes (fig. 87).

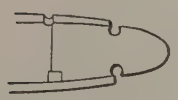


Fig. 87.

Coloring : None.

Technique : Piece possibly set on stern. Ends of seats, fit in holes in sides of ship. Mast and rudder-post, rested in holes. Rough, unfinished work.

Preservation : Tips of stern and bow are broken off. Upper stick of first, twelfth and fourteenth seats gone; that of second and ninth, broken. Salt deposit on bottom.

[1] Rests on n° 4811, but on account of coloring and position, appears not to belong.

4814. Model of a boat or canoe. — Wood. — Length o m. 52 cent. (pl. VI).

Hull : Bow and stern about alike, sharp and flattened vertically. Flat bottom running

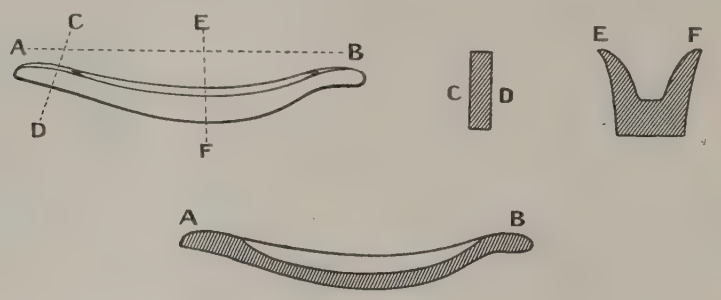


Fig. 88.

from end to end, curving like the upper side. Hollowed out almost to ends (fig. 88).

Rigging, crew, coloring : None.

Technique : Roughly cut out of a single stick.

Preservation : Very dirty.

4815. Model of small boat or canoe. — Wood. — Length o m. 445 mill. (pl. VI).

Hull : Sharp bow. Tip of stern, cut off straight. Rounded bottom and sides. Hollowed from end to end (fig. 89).

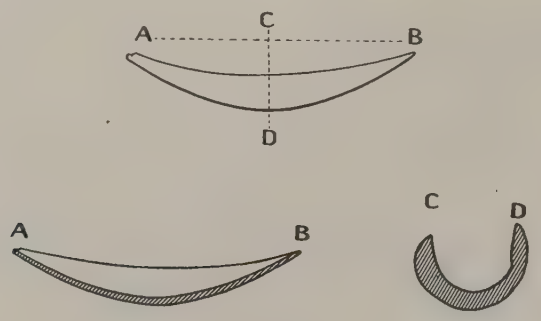


Fig. 89.

Rigging, crew, coloring : None.

Technique : Roughly cut out of single stick. Not perfectly round on bottom, flat surfaces.

Preservation : Tip of bow and of stern, somewhat broken.

4816. Model of a boat. — Wood. — Length 0 m. 535 mill. — *Purchase*, 1888 (pl. VI).

Hull : Flat, with pointed bow and stern (fig. 90). Hollowed out except in bow and stern (A-B). Bottom, flat (E-F).

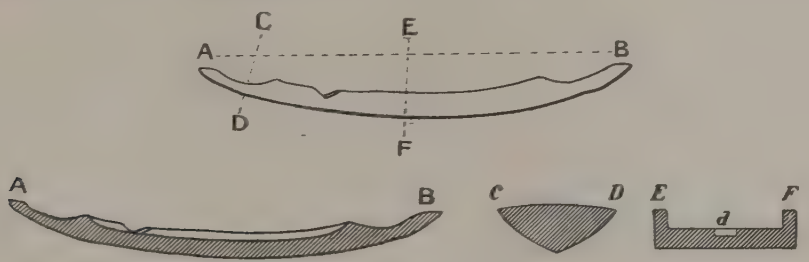
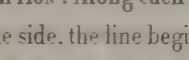
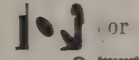
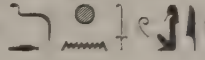
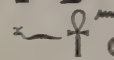


Fig. 90.

Rigging : In the middle, a square hole as if for mast (d).

Crew and coloring : None.

Inscription : Along each side, one line of hieratic, black ink, faint and nearly illegible. On one side, the line begins with  and on the other apparently with  . In the middle of the latter line, the signs   are clear.

Technique : Roughly cut out of a single piece of wood.

Preservation : Broken in three pieces and glued together.

Bibl. : *Journal d'entrée du Musée*, n° 28729.

4817. Model of a boat. — Unbaked Nile mud. — Length 0 m. 445 mill., width 0 m. 14 cent., height 0 m. 055 mill. — Rizagat, 1890 (pl. VI).

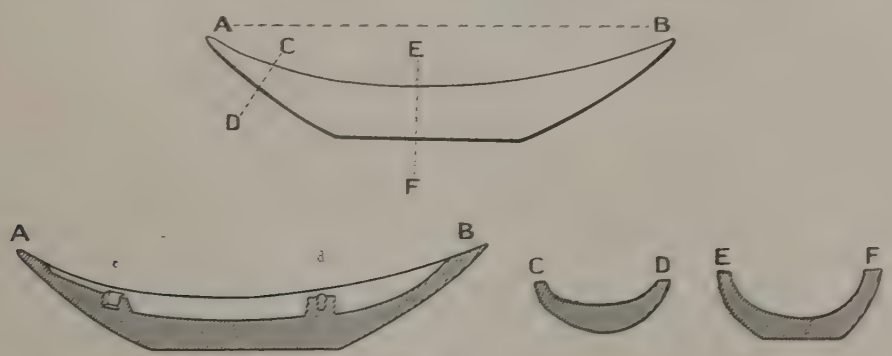


Fig. 91.

Hull : Bow and stern round, blunt. Bottom flattened like n° 4798. Hollow, with raised cross-piece for mast (b) and rudder-post (c). See fig. 91-92.

Rigging : Round hole for mast in cross-piece *b*. Square hole for rudder-post in cross-piece (c). Edge of rail, pierced by slanting holes, two pair, for ropes (d). Vertical hole through tip of bow (e).

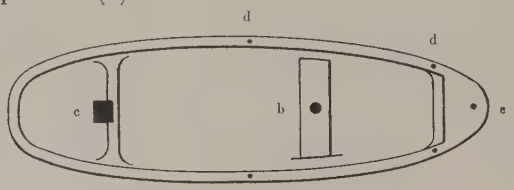


Fig. 92.

Crew : No indication.

Coloring : Red all-over.

Technique : Roughly formed.

Preservation : Tip of bow and also of stern, slightly broken.

Bibl. : *Journal d'entrée du Musée*, n° 28870.

4818. Pair of rudders[1]. — Wood. — Length 0 m. 615 mill., length blade 0 m. 13 cent.

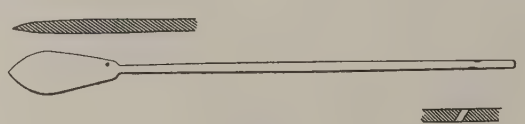


Fig. 93.

Large slanting hole through end of stem, for inserting end of handle. Small hole through upper part of blade[2]. Blade pointed at end. Coloring so far gone as to be indeterminable. Cracks filled with plaster. See fig. 93.

4819. Rudder from model of a ship[3]. — Wood. — Length 0 m. 45 cent., length blade 0 m. 165 mill.

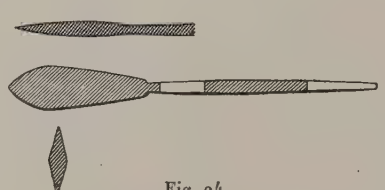


Fig. 94.

The only hole appears to be a small knot hole. Blade pointed at end. Stem, thicker in the middle. Colored red with white band at end of stem and another near where blade begins. Paint mostly rubbed off. See fig. 94.

(1) May belong to n° 4808.

(2) Cf. n°s 4821, 4971.

(3) N°s 4819 and 4820 may possibly belong to same ship.

4820. Rudder from model of a ship [1]. — Wood. — Length o m. 45 cent., length blade o m. 17 cent.

Fig. 95.

Shaped like n° 4819 but with broader blade. Large slanting hole o m. 115 mill. from end. Painted like n° 4819 with the addition of black marks on blade, the same on both sides. Paint, much rubbed. See fig. 95.

4821. Rudder from the model of a ship. — Wood. — Length o m. 64 cent., length blade o m. 185 mill.

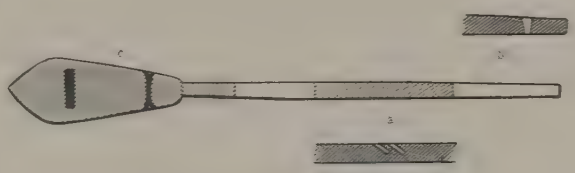


Fig. 96.

Shape similar to n° 4820. Blade, more angular. Vertical hole at *b*, possibly modern (b') [2]. Two slanting holes one behind the other at *a* (a'); the lower one contains the end of the handle. Hole through the blade at *c* [3]. Colored like n° 4819: but with black marks on blade, both sides alike. Colors rubbed. See fig. 96.

4822. Rudder from the model of a ship. — Wood. — Length o m. 69 cent., length blade o m. 22 cent.

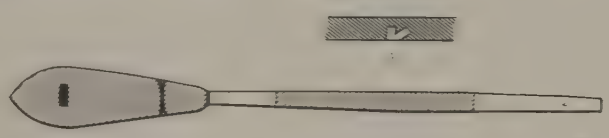


Fig. 97.

Blade rounded at end. Stem, thick in the middle. Small hole at *a*, modern [4]. Hole for handle at *b* [5]. Painted somewhat like n° 4821. Colors, rubbed. Broken in two near blade. See fig. 97.

[1] See n° 4819.
[2] Made in order to hang rudder on wall of show-case.
[3] Cf. n° 4818.
[4] In order to hang it upon wall of show-case.
[5] The vertical hole is modern.

4823. Rudder from the model of a ship. — Wood. — Length o m. 59 cent., length blade o m. 198 mill.

Fig. 98.

Pointed blade. Stem thick in the middle. Hole at *a*, modern [1]. Hole at *b* for handle of rudder, end of handle still in hole. Colored somewhat like n° 4821. Covered with thin coat of plaster and painted. Plaster and paint scaled off in spots. See fig. 98.

4824. Rudder from model of ship. — Wood. — Length o m. 668 mill., length blade o m. 22 cent.

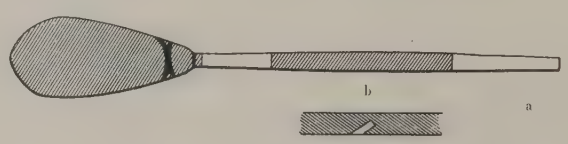


Fig. 99.

Blade, very round. Stem, not symmetrical. Hole at *a*, modern [1]. Hole at *b* for handle; end of handle still in hole. Covered with thin coat of plaster and painted. Plaster, scaled off in places. Stem broken in two near blade and glued. See fig. 99.

4825. Rudder from the model of a ship. — Wood. — Length o m. 56 cent., length blade o m. 186 mill.

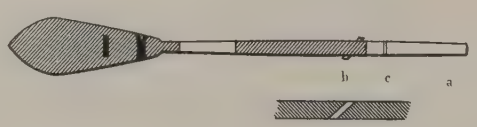


Fig. 100.

End of blade, rounded. Hole at *a*, modern [1]. Slanting hole at *b* for handle; end of handle still in hole. Painted somewhat like n° 4821; two fine black rings (c). Colors rubbed. See fig. 100.

[1] See n° 4822, above.

4826. Rudder from the model of a ship. — Wood. — Length o m. 54 cent., length blade o m. 156 mill.

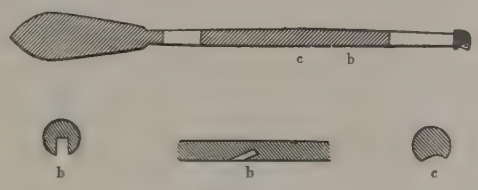


Fig. 101.

Hawk's head on end of stem. Oblong rectangular hole at *b* for handle of rudder (b′). At *c*, hollowed out where it rests against rudder rest or rail. Colored like n° 4821 but without black marks on blade. Wig of hawk, green; face yellow. Colors rubbed. Beak of hawk, broken off. End of handle still in hole *b*. See fig. 101.

4827. Rudder from the model of a ship. — Wood. — Length o m. 54 cent., length blade o m. 155 mill. (pl. XXV).

Like n° 4826. First white band from end o m. 012 mill., longer than on n° 4826. Hawk's head trifle larger. No hollow below hole for handle. Colors rubbed.

4828. Rudder from the model of a ship. — Wood. — Length o m. 505 mill., length blade o m. 15 cent. (pl. XXVI).

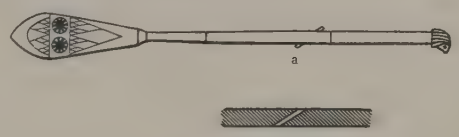


Fig. 102.

End of blade, rounded. Hawk's head on end of stem. Round slanting hole at *a* for handle; end of handle still in hole. Painted white, green, red with black lines. Hawk's head with green wig with black stripes. Face of hawk, yellow with black marks; three black marks on throat. Colors, slightly rubbed. See fig. 102.

4829. Rudder from model of ship. — Wood. — Length o m. 54 cent., length blade o m. 15 cent. (pl. XXV).

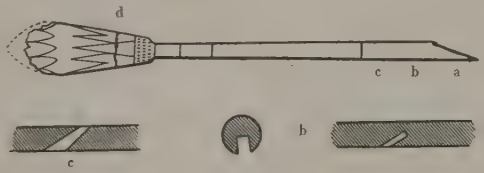


Fig. 103.

Hole at *a*, modern. Hole at *b*, (made by mistake) plugged and made even with plaster (b′). Hole at *c* for handle (c′). Painted with red, green, white and yellow. Lines and spots, black. End, broken off. Blade broken in two (d). See fig. 103.

4830. Rudder-post from the model of a ship. — Wood. — Length o m. 19 cent. (pl. XXX).

Lower half, four sided; upper half, eight sided. Hawk's head on upper end. Wig of hawk greenish blue; marks on face, black. All the rest of post has traces of yellow. Red marks around bottom, where inserted in hole in ship (ship was painted with red bars like n° 4798).

4831. Mast from the model of a ship. — Wood. — Length o m. 36 c. (pl. XXVII).

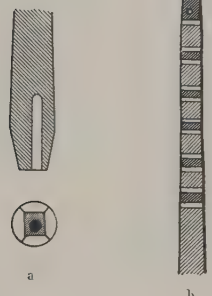


Fig. 104. — Base. Fig. 105. — Tip.

Round. Lower end, sharpened and cut square. Vertical peg-hole in lower end (a)[1]. Covered with thin coat of plaster and painted. Tip, yellow with white and red rings (b). Modern hole through the tip. See fig. 104, 105.

4832. Mast from the model of a ship. — Wood. — Length o m. 438 mill.

Very roughly rounded. Lower end, sharpened and cut square, like n° 4831. Covered with thin coat of plaster (now mostly gone) and painted yellow with black tip and four black rings just below tip. Modern hole through tip.

4833. Mast and two spars from the model of a ship[2]. — Wood. — Length mast o m. 575 mill., length spars o m. 50 cent.; o m. 505 mill.

Roughly rounded. Lower end of mast, like n° 4832. Spars, thicker is the middle. Tied together (modern knot) with an old piece of twine. Traces of plaster or paint.

4834. Mast-rest (fork) from the model of a ship[2]. — Wood. — Length o m. 206 mill.

Of one piece. Fork and pointed stem or post. Edges of post, beveled. Traces of plaster or paint similar to n° 4833. Roughly formed. Piece of twine tied on, like n° 4833. See fig. 106.

Fig. 106. Mast-rest.

[1] Cf. n° 4805, mast hole.

[2] N°s 4833-4834 may belong together.

4835. Bow-stick from model of a ship. — Wood. — Length o m. 141 mill. (pl. XXX).

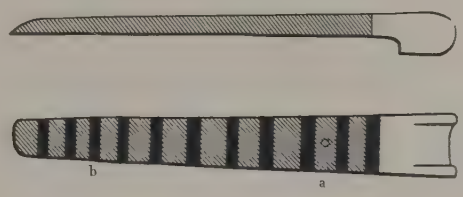


Fig. 107.

Similar to that on n° 4798 (see fig. 107). Two holes for fastening with pegs to deck of ship (a, b); the hole *b* still contains piece of peg. Painted yellow (the white end) and red with black marks.

4836. Roof of a canopy from the model of ship. — Wood. — Length o m. 164 mill. (pl. XXXI).

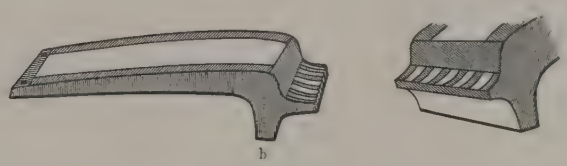


Fig. 108.

Back end pierced by holes for ends of posts. Front end, at *b* and on opposite side, entered by holes for ends of front posts. Covered with plaster and painted light yellow (on underside), dark yellow, and white, with black lines on edges and between blocks of color. See fig. 108.

4837. Pair of posts from canopy of the model of a ship. — Wood. — Length o m. 193 mill. (pl. XXX) (upside down).

Fig. 109.

Lower ends sharpened to fit holes in deck. On upper ends peg-like projections to fit holes in roof. Roughly cut. Ball on upper end. Painted white, with black and red rings. Ball, black. Piece of twine on one. Pegs on top, broken off. See fig. 109.

4838. Pair of posts from canopy of the model of a ship. — Wood. — Length o m. 17 cent.; o m. 168 mill.

Fig. 110.

Lower end was inserted in hole in deck. Peg-like projection on upper end to fit holes in roof. Painted green except peg and lower end. Color is thick coat of powdered substance. Pegs broken off. Lower end of one, broken. See fig. 110.

4839. Mast and spar from the model of a ship. — Wood. — Length mast o m. 60 cent., length spar o m. 605 mill. (pl. XXIX).

Roughly cut. Mast tapering. Lower end sharpened to fit hole in deck. Spar, thicker in the middle. Spar fastened (modern) to mast with piece of twine. The ropes (pieces of twine) with which the sail was fastened to spar are partly preserved (fig. 111); five (the full number?) on the one side, each being wrapped five times and knotted,

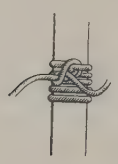


Fig. 111. Knot on spar.

Fig. 112. Second knot.

Fig. 113. Fifth knot.

Fig. 114. Rope-rings on mast.

the ends of the twine being now broken off; three on the other side. The tip of the mast is bound with five rope rings and two vertical ropes passing under them to form loops between the rings. The rope forming the rings is made fast to very tip of mast, passes down the mast to place of first ring, passes twice around mast, is tied once in simple knot and then passes down to place of second knot (fig. 112). At the last ring the end of the rope is knotted and slipped under (fig. 113). The other rope is wrapped and tied at the tip; and the ends pass down each side of mast under the rings (fig. 114), the ends being knotted to keep the rope from slipping out. This second rope was tied on first. There is another ring, wrapped twice, by which the spar was probably tied. Both mast and spar are painted a faint yellow.

4840. Spar and piece of sail from the model of a ship. — Wood and linen. — Length spar o m. 535 mill., sail o m. 48 cent. × o m. 30 cent.

Spar : Simple straight stick, well rounded and smoothed. Traces of yellow as ground color. Tips black. Five black rings on each side. In the middle, broad white ring with narrow red ring in the middle. See fig. 115.

Fig. 115.

Sail : Ragged piece of stained coarse linen, loosely woven. Glued to spar (modern) and tied at ends (modern).

4841. Model of a ship with sail spread. — Wood. — Length o m. 91 cent., width o m. 225 mill., height amidships o m. 13 cent. — Meir, 1892 (pl. VII).

Hull : Like n° 4802 (n° 4789).

Rigging : Mast hole in back end of white block [1]. Contains mast with upper and lower spars and square sail [2]. Mast and spars shaped like n° 4839. End of mast, provided with four rope loops like n° 4839 (fig. 116). Lower spar, wrapped three times on each side like n° 4839; each time the rope passes eight times around the spar; the ends of each rope then pass up slanting across sail and are made fast to mast near upper spar. The only perfect knot is *a*. From the knots on the mast, the ropes pass down the mast (b), are brought together, pass several times around base of mast (c), and knotted (d) (fig. 117). The ends are knotted and hang free (e). Of these knots, there are six. There are on the spar other knots besides those just described (f, g, h). On the upper spar there are a few knots similar to *f* (two on one side, one on the other).

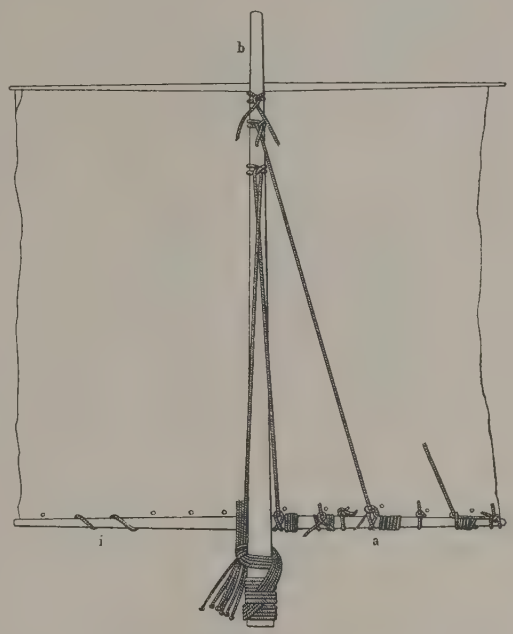


Fig. 116.

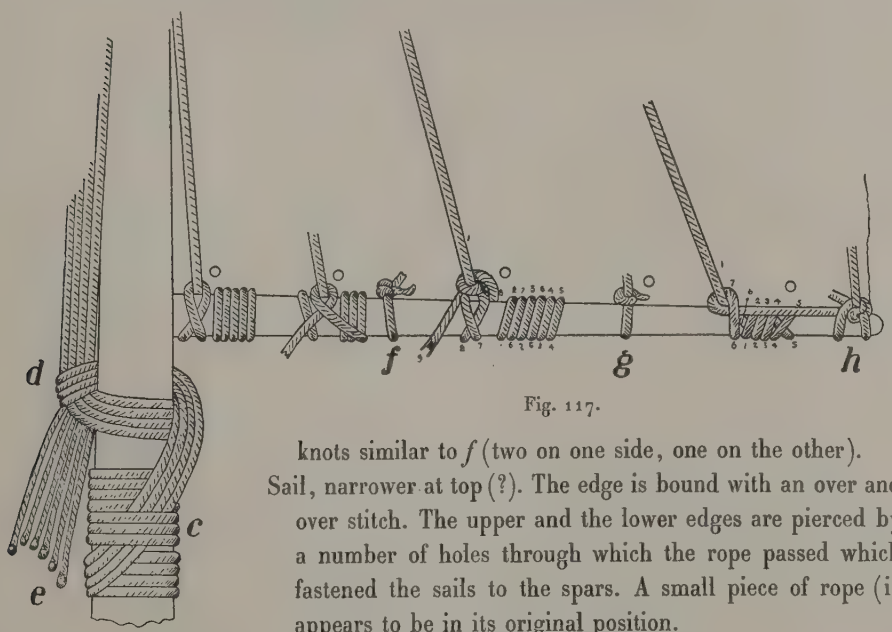


Fig. 117.

Sail, narrower at top (?). The edge is bound with an over and over stitch. The upper and the lower edges are pierced by a number of holes through which the rope passed which fastened the sails to the spars. A small piece of rope (i) appears to be in its original position.

[1] Usually in front end. Cf. n°s 4789-4803.

[2] Sail belongs to another ship according to *Journal*.

Rudder-post, like n° 4798. Six figures hold oars, like n° 4798.

Furniture : Canopy (fig. 118). Roof supported by back wall and in front by two posts. Posts similar to n° 4837.

Crew : Under the canopy, a figure sitting on a chair (k, fig. 120) figure and chair, like n° 4802, *s;* no beard. Lookout (l), like on n° 4798, with beard. Six squatting figures (m), rowers at rest, like figures *o* and *p* on n° 4802 but with beards. Four standing figures with outstretched arms (n) similar to n° 4798, *q*, with beards. Two standing figures (o, p); *p*. has lost its arms; *o* has one arm hanging, one doubled up (fig. 119). Steersman (q) like n° 4798, no beard.

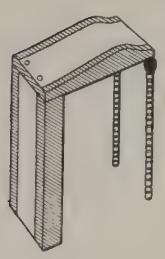


Fig. 118.

Fig. 119.

Coloring : Hull yellow. Deck, like n° 4798 and n° 4802 (fig. 120). Mast and spars faint yellow; spars, with black tips and two black bands each, irregularly placed; mast with black tip, below the upper spar, white and black rings alternating, four of each. Rudder-post, red. Figures, like those on n° 4798, all have black side-beards, except figure under canopy and

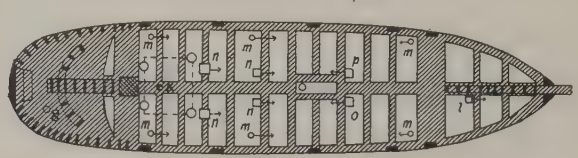


Fig. 120. — Deck plan with colors.

steersman. Canopy, inside yellow, outside, white with yellow edges (fig. 118). Posts like n° 4837.

Technique : Stern piece has been broken and set on with pegs. Bow piece, figures *k*, *m* and *q*, set on with pegs. Mast, rudder-post, figures *l*, *n*, *o* and *p*, rest in holes. Canopy, roof joined to back piece by pegs and to posts by holes which receive peg-like projection of posts. Posts rest in holes. Back pegged to deck. Arms of figures, pegged on. Covered with plaster and painted.

Preservation : Arms of figures *l* and *p*, gone. Rudder wanting. Sail fastened on with modern strings.

Bibl. : *Journal d'entrée du Musée*, n° 30212. *Cat.*, 1895, n° 790.

4842. Figure of goddess from model of ship of the dead. — Wood. — Height 0 m. 555 [1] mill. — Akhmim, 1885.

Attitude : Standing, left foot advanced. Arms extended; hands open, with palms down.

[1] *Journal* gives height as 0 m. 54 cent.

Dress : Long narrow tunic extending from just below the breasts nearly to the ankles, bound around the top with a red ribbon the ends of which fall down the front nearly to bottom of garment. Short round wig with earlappets and with broad flat plait down the back. Plait, short and curling up somewhat at the end. Wig, bound around with ribbon. On top of head, a sign or crown with sign.

Coloring : Skin, yellow. Garment and wig, white. Ribbons, red. Eyebrows, eyelashes, cosmetic stripes, green. Iris, black. White of eye, white.

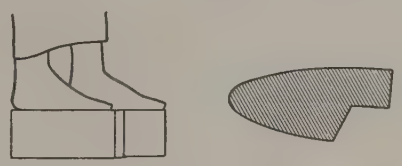


Fig. 121.

Technique : Rests on prolongation of feet, made to rest in hole in deck of ship (fig. 121). Arms fastened on each side by one peg. Well-cut nose-holes, ears and eyes. Feet and legs below garment, separated. Well smoothed, covered with thin coat of plaster and painted. Crown set on with tongue on crown and hole in head.

Preservation : Plaster and paint, mostly gone. Cracked.

Bibl. : *Journal d'entrée du Musée*, n° 26498.

4843. Figure of a goddess from model of ship of the dead. — Wood. — Height 0 m. 552 [1] mill. — Akhmim, 1885.

Attitude : Similar to n° 4842. Left foot not so far advanced.

Dress : Garment, like n° 4842. Ribbon not to be seen. Ribbed wig, falling over shoulders in two plaits (one on each side) which have a spiral curl at the end, and down the back in one broad short plait. Crown with sign in top of head. Wig has narrow ear-lappet. See fig. 122.

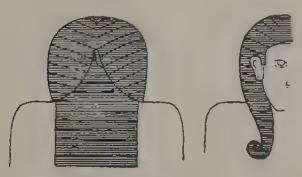


Fig. 122.

Coloring : Skin, yellow. Garment, white (?). Wig, eyebrows, eyelashes, cosmetic stripes, iris, black. White of eye, white.

Technique : Like n° 4842. Nose-holes, not so deep. Hole in left shoulder filled with plaster.

Preservation : Plaster and paint, mostly gone. Legs, badly worm-eaten.

Bibl. : *Journal d'entrée du Musée*, n° 26499.

4844. Model of a ship with rowers. — Wood. — Length 1 m. 15 cent., height amidships 0 m. 105 mill., width 0 m. 18 cent. — Meir, 1893 (pl. VIII and XXV).

Hull : Like n°s 4798 and 4802, in shape. Deck like n° 4802.

[1] *Journal* gives height as 0 m. 63 cent.

Rigging : Hole (square) for mast, like n° 4803 in forward end of white block. Hole for rudder-post like n° 4798 (square). Rudder-post[1], like n° 4798. Rest for

Fig. 123.

mast, like n° 4834. Rudder with round-tipped blade, slanting hole for handle (a) (part of handle still in hole) and hole through tip for a string. Oars, similar to those on n° 4798. Small wooden buffer hanging by a string. Oars similar to n° 4798. See fig. 123, 124.

Fig. 124.

Crew : Lookout, like on n° 4798, standing with outstretched[2] left arm, hanging right arm. Sixteen rowers, similar to those on n° 4798[3]. Peg for steersman on right of middle. Some of figures have piece of linen around the waist.

Coloring : Hull, yellow. Deck, red, white, black and yellow, similar to n° 4848, stern and bow different (fig. 125). The figures are colored red, black and white

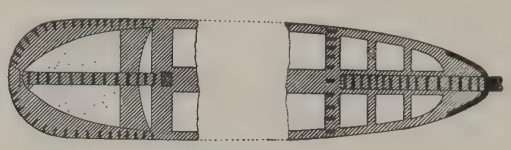


Fig. 125.

like those on n° 4798; only the lookout has a side-beard. Rudder-post, red. Mast-rest, white. Buffer, red.

Technique : Hull cut out of a single block. Bow stick set on with pegs. Lookout, mast-rest and rudder-post, rest in square holes. Crew sit on small blocks (modern), which rest on red stripes, and have their feet in holes in deck[4]. Arms of figures set on with pegs. Some of the figures numbered in black ink (ancient). Holes for fastening oars like n° 4798. Covered with coat of plaster and painted.

Preservation : Plaster only slightly scaled off..

Bibl. : *Journal d'entrée du Musée*, n° 30536 *bis*.

(1) The rudder-post has been fastened into the hole for the mast. The mast-rest has been fastened with plaster into the hole for the rudder-post.

(2) Right arm glued on in false position, shown by break in plaster.

(3) Some of these are larger and have the feet cut off (recent cut) to make them fit in. That is, they do not belong to this boat.

(4) There are no holes for pegs in the deck by which blocks might have been fastened. All the blocks are modern. There are no peg holes in the figures by means of which the figures might have been fastened to the blocks. It is almost certain that the arrangement of rowers on this boat is a false restoration.

4845. Model of a ship with rowers. — Wood. — Length 0 m. 60 cent., height amidships 0 m. 08 cent., width 0 m. 155 mill. — Meir (pl. VIII).

Hull : Similar to n° 4798 (fig. 126). Deck like n° 4802.

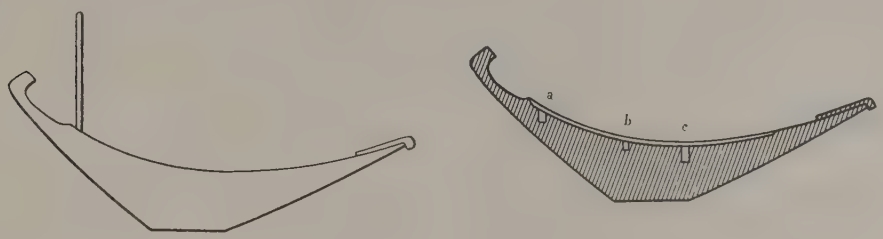


Fig. 126. — Profile and section.

Rigging : Round hole for mast (c) in red stripe in front of white block. Rudder-post (a) like n° 4798. Rudder with narrow pointed blade and slanting hole for handle

Fig. 127. — Rudder.

Fig. 128. — Oar.

(fig. 127). Stick fastened on bow like n° 4798. Rude oars, small, two of them with curved blades (fig. 128). Oars fastened by strings through holes, like n° 4798.

Crew : Lookout in bow, right side [1], indicated by hole for peg. On opposite side of bow, two small holes together containing ends of pegs. Ten rowers, five on each side, sitting with hands closed on knees (fig. 129). Sits on small block; wears short skirt. On red middle stripe, between the second pair of rowers from stern, a hole (b) as if for fastening a figure. In stern, right side, hole for steersman.

Fig. 129. — Rower.

Coloring : Hull, white with narrow red band along top edge (fig. 130). Deck, red bars, white spaces and black marks. The black marks around depressed part of deck are on the slanting inner side of rail (fig. 131). Rudder-post, red. Figures, red skin, black wig, side-beard,

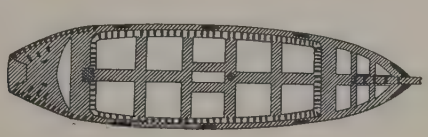


Fig. 130. — Color plan.

Fig. 131. — Rail.

eyelashes, eyebrows and iris, white skirt, yellow stools. White of eye, red. Some of the oars, red. Rudder, red and white. One rower has toes marked out in black.

[1] The figure which stood in the bow does not belong to this boat.

Technique : Hull, cut out of solid piece. Mast and rudder-post, rest in holes. Bow-piece, fastened on with pegs. Each rower and stool, cut of one piece, fastened to deck by peg in bottom of stool. Feet of figure also rest in hole in deck. Other figures fastened on with pegs. Covered with plaster and painted.

Preservation : Hole in right side. Piece broken out of left rail near first pair of rowers. Rudder somewhat decayed. Plaster scaled off in places.

Bibl. : *Journal d'entrée du Musée*, n° 30572.

4846. Model of a ship with rowers. — Wood. — Length 0 m. 60 cent., height amidships 0 m. 08 cent., width 0 m. 16 cent. — Meir (pl. IX).

Hull : Like n° 4845. Raised middle beam in stern, like n° 4798.

Rigging : Rudder-post, bow piece[1], oars, oar holes, like n° 4845. Very rough rudder. One additional pair of holes through rail, just back of last pair of rowers (from stern), one similar hole on left side opposite second pair of rowers, and one on left side opposite rudder-post. Two small holes in middle beam, one back of white middle block and the other half way between that and rudder-post.

Crew : In bow, two holes close together one in front of the other (oo) on left side, containing ends of pegs. Another hole (?) on right side. Ten rowers, five on each side, like n° 4845 but smaller. Peg-hole, in stern, left side for helmsman. Standing figure, feet together, left arm hanging (?), right extended (?), short skirt : may be the lookout.

Coloring : Like n° 4845; but the black marks on the deck are wanting entirely. One rower has toes marked out in black.

Technique : Like n° 4845. Arms of lookout (?), fastened with pegs; the right hand pierced.

Preservation : Plaster scaled off in places.

Bibl. : *Journal d'entrée du Musée*, n° 30571.

4847. Model of a ship for the dead. Name of **(?).** — Wood. — Length 0 m. 575 mill., width 0 m. 14 cent., height amidships 0 m. 10 cent. — Meir (pl. IX).

Hull : Similar to n° 4811 (fig. 132). Deck hollowed only in the middle. Bottom flat from end to end.

[1] Bow-piece now on boat does not belong to it.

Rigging : Two rudder-posts, hawks' heads, like n° 4811 [1]. Rest for rudders, cross-piece extending beyond sides of ship.

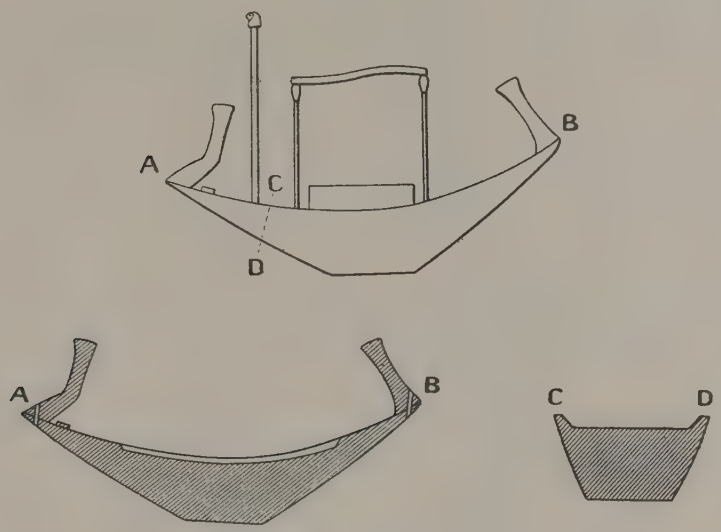


Fig. 132. — Profile and two sections.

Furniture : Four holes in which stood originally the posts of a canopy (d) [2]. Under the canopy a small rectangular coffin (f) [3]. See fig. 133.

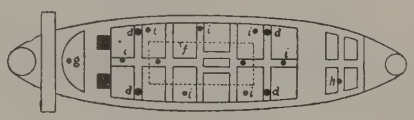
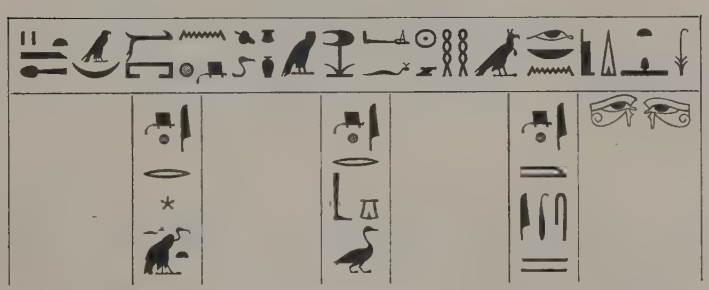


Fig. 133. — Deck plan.

Left side.



[1] Do not seem to belong to this boat.

[2] Canopy at present on boat, does not belong; posts (see n° 4848) too small for holes; roof (see n° 4849) too small.

[3] Possibly, coffin does not belong to this boat.

Top :

Right side :

Front end :

Back end :

Crew : There are peg holes for nine figures (fig. 133) : helmsman (g), lookout (h), and seven persons around the coffin (i). There are at present six figures standing around the coffin, fastened arbitrarily with small nails. These figures are of different sizes but all standing, feet together, with short skirt. Two of them have right arm raised, hand open, left arm hanging, hand closed. Of the others, three have one whole arm apiece, two lefts and one right, arm raised, hand closed and pierced. The sixth figure has no arms [1].

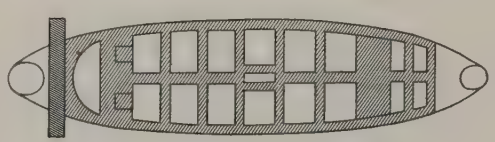


Fig. 134. — Color plan.

Coloring : Hull, light green. Stern and bow posts, greenish blue. Deck, white with red stripes (fig. 134). Rudder rest, greenish blue. Rudder-post : below, red; eight sided part, white (traces). Hawk's head like n° 4811. Figures, red, white and black as usual, black side beard. Coffin, yellow with black lines and black signs.

[1] The first two figures may belong to boat, may have stood about the coffin. One of the others may have been lookout.

Technique : Hull, of one piece. Bow and stern-posts, each of separate piece fastened on with pegs (fig. 132, section A-B). Rudder-rest, coffin, all the figures, fastened with pegs. Rudder-posts, posts of canopy, rest in holes. Covered with plaster and painted. Arms of figures, pegged on.

Preservation : Plaster scaled off.

Bibl. : *Journal d'entrée du Musée*, n° 30526.

Fig. 135.

4848. Four posts from canopy of model of a ship[1]. — Wood. — Length 0 m. 17 cent.-0 m. 185 mill.

Usual form, painted with red, green, black and white stripes. See fig. 135.

4849. Roof of a canopy from the model of a ship[1]. — Wood. — Length 0 m. 165 mill., width 0 m. 073 mill.

Simple board, with front end rounded off (fig. 136) and with a cross piece fastened by three pegs to under side of front end. Upper side, greenish blue with the picture of a leopard skin, white with black spots and outlines. All the rest, white. Two holes in back end for posts and two in the projecting ends of cross piece in front. Half of cross piece, split off.

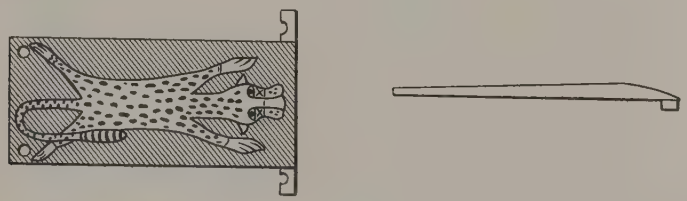


Fig. 136 [2].

4850. Sarcophagus from the model of a ship[3]. — Wood. — Length 0 m. 13 cent., width 0 m. 058 mill., height 0 m. 047 mill. — Meir, 1893.

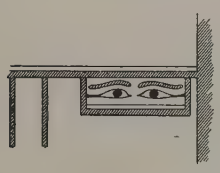


Fig. 137.

Rectangular, with four low cleats, similar to n° 4847. On front end of top, facing back, the feet and tails of two small hawks.

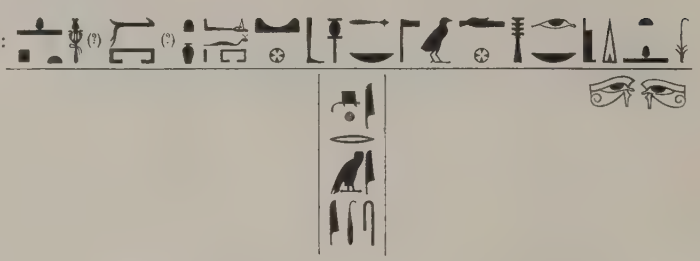
Coloring : Yellow. Along edges, broad green and narrow white stripe (inside). Along inscription, narrow white and narrow green stripe. Pair of eyes on left side (fig. 137); green eyebrows and cosmetic stripes; black eyelashes and iris; white of eye white; red corners.

[1] See n° 4847.

[2] In original drawing, tail of leopard-skin is on skin not beside it.

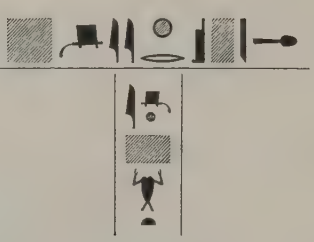
[3] Fastened with nails to n° 4851.

Inscription : In black ink.

Left side : 

Right side :

Front end :

Back end : 

Technique : Originally fastened on by two pegs side by side in middle of underside. Hawks fastened on with pegs; feet and tails, of plaster. All except bottom of coffin, covered with plaster and painted.

Preservation : Plaster scaled off of ends in places.

4851. Model of a ship for the dead. — Wood. — Length 0 m. 845 mill., width 0 m. 18 cent., height amidships 0 m. 10 cent. — Meir, 1893 (pl. X).

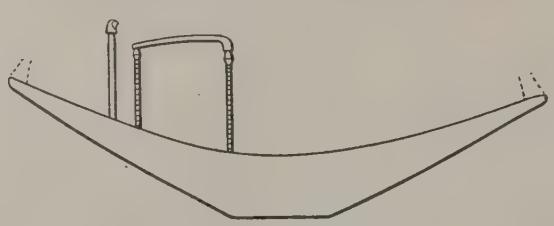


Fig. 138. — Profile.

Hull : In form something like n° 4847 but longer and more graceful (fig. 138).

(1) Possibly the same person who is named on the statue n° 459.

Print in plaster on stern indicates slight difference in form of stern (and bow?) post (fig. 139). Deck hollowed out like n° 4847. Bottom, flat from end to end like n° 4847.

Rigging : No mast. Two rudder-posts, like n° 4811 (fig. 140). Rest for rudders, now gone (c).

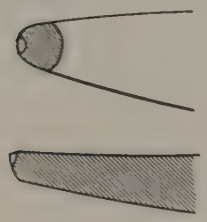


Fig. 139. — Stern.

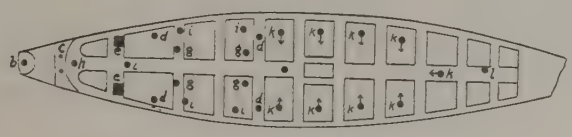


Fig. 140. — Deck plan.

Furniture : Canopy supported by four posts (d)[1]. Posts, like n° 4848. Under the canopy, four holes for fastening small coffin (?) (g)[2].

Crew : Peg holes for helmsman (h) and lookout (l). About the coffin, peg holes for six figures[3]. In front of canopy, facing in, nine sitting (squatting) figures (k) with the arms wrapped up in long garment, the right side of which overlaps the left side (fig. 141).

Fig. 141. — Member of crew.

Fig. 142. — Bow.

Coloring : Hull, green; tips of bow and stern, blue. On each side of bow an *uḏat*, eye; blue eyebrows and cosmetic stripes, black eyelashes and iris, white white of eye, on yellow background (fig. 142). Blue, red, green, yellow stripes, along top of sides

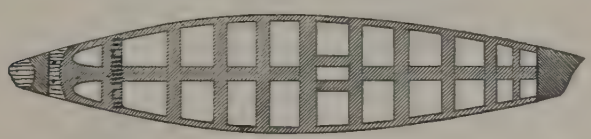


Fig. 143. — Color plan.

Fig. 144.
Base of rudder-post.

(fig. 142). Deck, white with red bars (fig. 143). From trace of color, the stern post appears to have been yellow (b). Rudder-post, like n° 4847 but with black horizontal marks on square part (fig. 144). Post of canopy, like n° 4848. Roof, on top, white

[1] Neither roof nor posts seem to belong here.

[2] See n° 4850.

[3] The figures now on the boat and the figure of lookout, do not belong to this boat (see size of pegs), see n°s 4852, 4853, 4854.

middle ground and yellow border; edges, yellow; underside, cream color. Figures, red skin, black hair parts (no beard), white garments, white of eye white.

Technique : Hull, out of one piece. Bow and stern posts, rudder-rest, coffin, all the figures, fastened with pegs; the rudder-rest with two, the coffin with four pegs, the others with one apiece. The rudder-posts rest in holes which pass entirely through the boat, and are cut off slanting even with side of boat. The posts of canopy rest below in holes in deck, above in holes in roof. The whole, covered with layer of plaster and painted.

Preservation : Tips of bow and stern together with bow and stern posts broken off. Plaster, almost perfectly preserved.

Bibl. : *Journal d'entrée du Musée*, n° 30540.

4852. Four figures from the model of a ship[1]. — Wood. — N° 1 height 0 m. 115 mill.; n° 2 height 0 m. 12 cent.; n° 3 height 0 m. 125 mill.; n° 4 height 0 m. 105 mill. — Meir.

Standing, with feet together. Short white skirt. Red skin. Black hair parts. White white of eye. Black iris. N°s 1 and 2 are somewhat thicker. N° 1, right arm hanging, left slightly extended, both hands closed, the left one pierced. N° 2, right arm hanging, hand closed and pierced, right arm, wanting. N° 3, right arm raised, hand closed and pierced, left arm raised and broken off close to shoulder. N° 4, both arms wanting. Arms fastened with pegs. Cracks filled with plaster. Painted. Fastened originally by peg to deck; peg hole in right foot. N° 4, feet broken off.

4853. Two figures from the model of a ship[2]. — Wood. — N° 1, height 0 m. 11 cent.; n° 2, height 0 m. 115 mill.

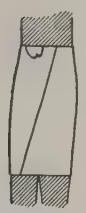


Fig. 145.

Standing, feet together. White skirt with black outlines (fig. 145). Red skin, black hair parts and iris; black lines, marking off the toes; white white of eye. N° 1, has both arms raised, hands closed. N° 2, has left arm slightly extended and broken off close to shoulder; right arm wanting. Roughly made, nose and mouth not indicated. Narrow slit, sawed out between feet. Cracks filled with plaster. Painted. Arms, pegged on.

4854. Figure of priest from the model of a ship[3]. — Wood. — Height 0 m. 125 mill.

Fig. 146.

Standing, feet together, arms raised, right hand open, palm up, left hand broken off (fig. 146). Short white skirt with white strap passing

(1) See n° 4851, note 4.

(2) See n° 4851. N°s 4853 and 4855 belong to same boat.

(3) See n° 4851.

diagonally over left shoulder. Bald head, with black dots. Red skin, black hair parts, black iris, white white of eye. Ears built up with red plaster. Arms, pegged on. Cracks filled with plaster. Painted. Originally fastened by peg to deck. Peg hole in foot. Front of legs with feet, split off.

4855. Figure of a man from the model of a boat[1]. — Wood. — Height o m. 115 mill. — Meir.

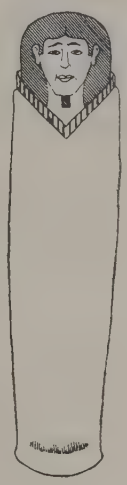


Fig. 147.

Exactly like n° 4853 n° 1.

4856. Figure of a mummy from the model of ship[2]. — Wood. — Length o m. 28 cent. — Meir.

Long white wrappings with indented collar (fig. 147). Yellowish skin. Blue wig, hair-corners in front of ears and short chin beard. Black eyebrows, eyelashes, cosmetic stripes and iris. White, white of eye. Features, well cut. Blue color, granular. White of wrappings, plaster. Plaster scaled off in places. Hole in back, plugged with wood.

Bibl. : *Journal d'entrée du Musée*, n° 30631.

4857. Figure of a mummy from the model of a ship. — Wood. — Height o m. 235 mill. — Meir.

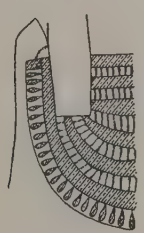


Fig. 148.

White wrappings. Greenish blue wig (stained dark). No hair corners in front of ears. Wig falls in three plaits, one narrow one over each shoulder and a broad one down the back. Ears exposed. Skin, yellow. Eyebrows and cosmetic stripes, blue. Eyelashes and iris, black. White of eye, white. Corners of eye, red. Chin beard, broken off.

Ornamentation : Large necklace (fig. 148).

Inscription : One vertical line down the front, large signs in ink.

Technique : Features, well cut. Beard, pegged on. Body covered with thin coat of plaster. Blue, granular.

Preservation : Plaster and coloring on wig, scaled off in places.

Bibl. : *Journal d'entrée du Musée*, n° 30541.

(1) See n° 4853.
(2) See n° 4811.

4858. Figure of a mummy from the model of a ship. — Wood. — Height o m. 32 cent. — Meir.

Similar to n° 4857; but eyebrows and cosmetic stripes are black. Skin, a bright yellow. No red in corners of eyes. Several bits of linen stick to the right side. No beard.

Ornamentation : None.

Inscription : One vertical line down the front, large signs in ink : (➧⟶)

Technique : Piece set into left side of face and another set into right shoulder. White is plaster. The blue and the yellow, granular.

Preservation : Right plait of wig, piece split off. Plaster scaled off.

Bibl. : *Journal d'entrée du Musée*, n° 30517.

4859. Model of a ship. — Wood. — Length o m. 485 mill., width o m. 19 cent., height amidships o m. 095 mill. — Meir (pl. X).

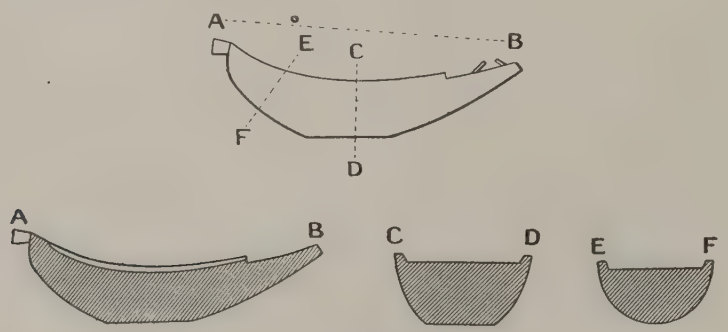


Fig. 149. — Profile and three sections.

Hull : Broad, bellying boat with flat bottom (fig. 149). Deck hollowed slightly from end to end. Forked stern with peg for fastening rudder (fig. 150).

Fig. 150. — Stern.

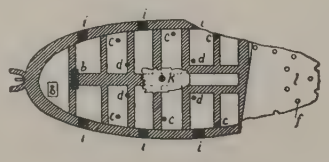


Fig. 151. — Deck plan.

Rigging : Hole for rudder-post (?) (b, fig. 151). No trace of mast.

Furniture : Holes for canopy posts (d) and one also for coffin (?) or throne (?) (k).

Crew : There are six holes which may have served for fastening figures (c). Some of the holes in the bow must also have been for fastening one or more figures (f). In addition there is at (*g*) a small lump of plaster with which a steersman may have been fastened.

Coloring : Bottom, greenish blue. Deck, white with red bars and six black spots along the rail (i).

Technique : Front part of deck and tip of bow set on with pegs. At *l* the pegs are still in place, inclined towards each other. A piece is also set in each side of the bow, fastened with pegs, that on the left side is gone. Covered with coat of plaster and painted.

Preservation : Splits in bow and stern. Plaster almost entirely gone from bottom. Piece split out of middle of deck, about *k*.

4860. Model of a ship of the sun[1]. — Wood. — Length o m. 86 cent., width o m. 165 mill., height amidships o m. o8 cent. — Meir.

Hull : On one end (bow), elaborate post, rectangular below, round above. Post on other end, now wanting (fig. 152). Deck, slightly hollowed from end to end. Rail,

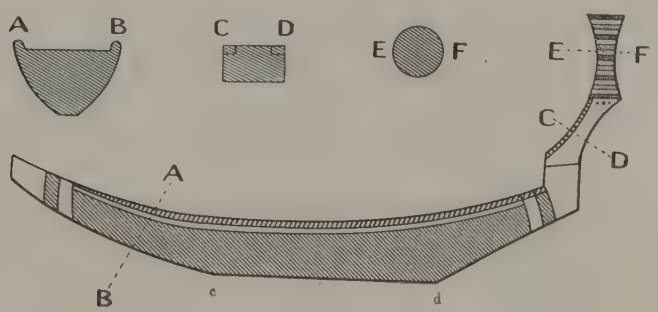


Fig. 152. — Profile and three sections.

rounded. Bottom flat, from *c* to *d;* beyond *c* and *d,* narrow flat keel (section A-B). In the bottom are four peg-holes for fastening the ship on something.

[1] This ship was rigged out in the Museum as sailing vessel with rowers. The missing stern post was replaced by a post from a ship of the dead, fastened on with plaster. A hole was bored between the holes *g* and a mast from a sailing boat fastened in with plaster. Holes were bored through the rail, six on right and seven on the left and oars tied on. Two posts from the canopy of a ship were fastened with plaster in the holes *k;* holes were bored in these posts, short sticks inserted and two rudders from a ship of the dead tied on. Crew of eleven figures (four helmsmen, two figures sitting on chairs, etc.), from sailing boats were fastened on with glue. The peg holes in the deck not covered by these figures were filled with plaster and smoothed off.

Furniture : The position and the number of the objects are indicated by nineteen peg-holes and two slots (k) and by black lines drawn on the deck (fig. 153). The pairs *e, f, g* fastened each one object. The group *h* contained one or more objects.

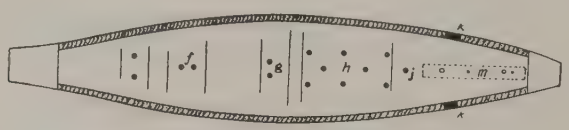


Fig. 153. — Deck-plan.

The hole *j* does not seem to belong to *h*. The group *m* held one piece of wood (on which may have been several objects) as is shown by the print on the deck. On the top of the post *o*, eleven peg holes with ends of pegs, showing position of a number of small objects (fig. 154). At *q*, may have been a small hawk whose tail has left

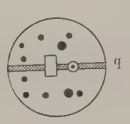


Fig. 154. — Top of bow-post.

Fig. 155.
Hole in edge of bow-post.

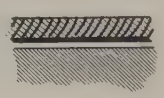


Fig. 156. — Rail.

the rectangular mark in the center. At the base of the round part of bow-post, there are curving holes entering and coming out in the same surface : one in front, one behind and two on each side (s, fig. 157). The two upper edges of the rectangular part of the post are pierced by twelve slanting holes in each edge (fig. 157, t). Some of the holes *s* and *t*, contain small pieces of twine (antique) (fig. 155).

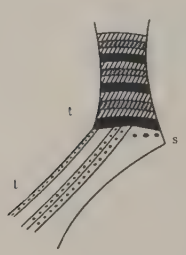


Fig. 157. — Bow-post.

Coloring : The bottom is green, the ends being white bounded each by a green and a yellow vertical band with red outlines. The rail is yellow, crossed by curving diagonal red lines. Between rail and green of bottom is a narrow red and a narrow white stripe (fig. 156). The depressed part of deck is white. The bow-post — rectangular part white, upper edges, yellow. The round part, marked with seventeen bands, green, white, yellow, white, green, white, etc., in this order from below, with diagonal red marks (fig. 157).

Technique : Hull of one piece. Bow and stern posts set on, each with two large pegs. The front edges (t) of the rectangular part of bow-post are separate pieces fastened in grooves with two pegs each (see fig. 152, cross-section C-D). Covered with layer of plaster and painted.

Preservation : Very well preserved hull, except for injuries caused by attempt at restoration, see note 1. Strip set in left upper edge of stern-post, wanting.

4861. Model of a sailing ship with rowers (?). — Wood. — Length 0 m. 625 mill., width 0 m. 154 mill., height amidships 0 m. 072 mill. — Meir, 1893 (pl. XI).

Hull : Form like n° 4844 but much smaller. Deck, bottom, bow-stick, like n° 4844.

Rigging : Square holes for rudder-post (a, fig. 158), mast (b)[1] and one other object (c, possibly for mast-rest). Four slanting holes through edge of rail for ropes of sail

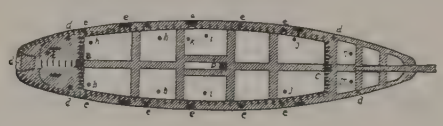


Fig. 158. — Deck-plan.

Fig. 159.

and mast (d). Five pairs of similar holes for fastening oars (?) (e)[2]. Rough wooden bumper with a broken string-handle (fig. 159).

Crew : Four squatting figures (h and fig. 160) with outside arm slightly extended, inside arm raised, hands closed and pierced. The two peg holes *i* may have been occupied by similar figures. There are also the three peg holes *k* and *j* and three standing figures which seem on account of color and form to belong with the figure *h*. These figures have both feet together, both arms raised (sailors), hands closed and pierced, short skirts, beards on cheeks. In the stern, peg-hole for helmsman (l), in the bow, peg-holes for lookout (m) and one other (n). There is one more figure which may have stood at either *l* or *n*. Figure squatting (fig. 161), right arm extended, fist *closed*, palm down and pierced; long garment passing under right arm, over left arm and shoulder and flung diagonally across back from left to right side; cheek beard; wrapped in a linen rag.

Fig. 160. — Paddler.

Fig. 161.

Coloring : Hull, yellow like n° 4844. Deck, white with red bars and black marks similar to n° 4845 (see figure 158). Figures, red skin, white garments, black hair parts as usual. White of eye, white.

Technique : Hull, of one piece. Bow stick, and all figures fastened with pegs. Covered with coat of plaster and painted.

Preservation : One standing figure lacks arms. Two of the squatting figures lack left arm. Two square holes in deck made by *restorer*.

Bibl. : *Journal d'entrée du Musée*, n° 30512.

[1] Rudder post n° 4864 used as mast by the *restorer*.

[2] The oars now on this boat are entered under n°s 4862-4863. Some of these holes may be modern.

4862. Eight oars from the model of a ship[1]. — Wood. — Length o m. 17 cent.-o m. 18 cent.

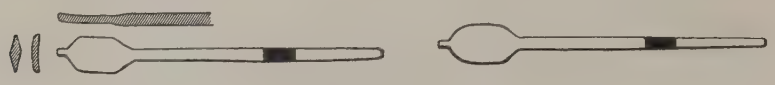


Fig. 162. — Oars.

Roughly whittled. Black band around handle. One has traces of yellow on handle and blade. See fig. 162.

4863. Two oars from the model of a ship[1]. — Wood. — Length o m. 185 mill., and o m. 17 cent.

Each whittled out of one piece. Painted yellow with black band around handle. See fig. 163.

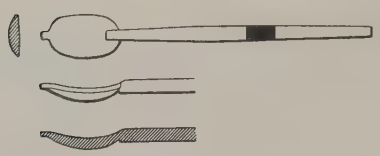


Fig. 163. — Oars.

4864. Rudder-post from the model of a ship[2]. — Wood. — Length o m. 25 cent.

Similar to that on n° 4798. Tip, red; rest of octagonal part, white; square part, red with narrow black bands (5). Lower end, sharpened somewhat. Hole through top (modern?).

4865. Two spars from the model of a ship. — Wood. — Length o m. 28 cent., and o m. 30 cent.

Roughly whittled, tapering toward the ends[3].

4866. Squatting figure from the model of a ship (helmsman?)[4]. — Wood. — Height o m. 23 cent.

Fig. 164. — Steersman.

Knees and feet apart. Arms, outstretched; fists closed, palms in, and pierced. Short black wig, covering ears. Black eyebrows, eyelashes and iris. White of eye, white. Red skin. White skirt. No beard. Rests on rectangular block by which it was fastened to ship. Arms fastened on, each by one peg. See fig. 164.

(1) See n° 4861, note 2.
(2) See n° 4861, note 1.
(3) Were on n° 4861, with old piece of linen tied to them as sail.
(4) N°s 4866 and 4867 have same style and workman-ship and probably belonged to same boat.

4867. Sitting figure of rower from the model of a ship[1]. — Wood. — Height 0 m. 32 cent.

Sits on block or stool, feet and legs from knees down slightly apart. Arms, slightly extended; hands closed, palms down, and pierced. Colored like n° 4866. Stool, yellowish. Feet and arms pegged on. Toes and fingers, carved rudely. Fastened to ship by means of two pegs in bottom of stool. See fig. 165.

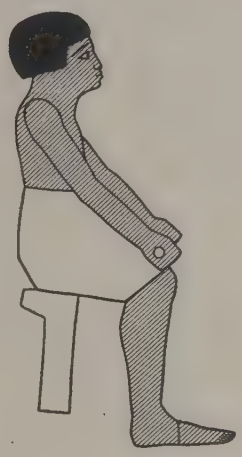


Fig. 165. — Rower.

4868. Kneeling figure of a woman from model of a ship. — Wood. — Height 0 m. 20 cent.

This is a servant possibly from a house-model.

Right knee on the ground, left knee raised with foot flat on ground. Left arm, extended, hand closed palm in. See fig. 166.

Fig. 166.

Long wig falling in broad plait down the back and in one narrow one over each shoulder. Short garment passing under right arm and over left shoulder.

Coloring : Hair parts, cosmetic stripes and iris, black. White of eye, white. Skin, yellowish brown. Skirt, white.

Technique : White, of plaster. Arms, set on, each with a peg. Large peg hole with end of peg in bottom for fastening to ship.

Preservation : Right arm gone.

4869. Model of a ship with rowers. — Wood. — Length 0 m. 71 cent., width 0 m. 188 mill., height amidships 0 m. 087 mill. — Meir, 1893 (pl. XI and XXX).

Hull : Like n° 4844, but smaller. Stern higher.

Rigging : Round mast with five eyelets on each side and one at the top like n° 4798. Two spars and piece of linen (fastening modern)[2]. Rudder-post like n° 4864.

[1] See n° 4866.

[2] Spars do not seem to belong to boat.

Three holes (c, fig. 170) for ropes. Mast-rest at *b* (figs. 170 and 167) with the rest-end on the hollowed part of the deck. Holes for fastening oars (d)[1] bored through the rail (fig. 168).

Fig. 167. — Mast-rest.

Crew : Peg-holes for helmsman (h) and lookout (l). Squatting figure, like figure *k'* on n° 4851, at *k*, with cheek-beard; figure wrapped with a bit of linen. Fourteen figures of oarsmen, like n°s 4845 and 4846, seven on each side (fig. 169).

Fig. 168. Oar hole.

Coloring : Hull, white with red stripe around the top. Deck, white with red bars and black marks (fig. 170), similar to n° 4845. Rudder-post, like n° 4864. Mast, yellow with black tip from just below eyelets up. Spars, yellow with black tips; the upper one has one broad black ring around the middle and two narrower ones on each side; the lower spar has three narrow rings on each side. The mast-rest is white with traces of outer coat of yellow. Figures black, red and white with yellow stools like on n°s 4846 and 4851.

Fig. 169. Stern.

Technique : Hull, of one piece. Mast in round hole; rudder-post in square one. Mast-rest, fastened with peg. Figure *k* fastened with peg. Rowers, have their feet in holes in deck and are fastened to the red bars by pegs in the bottom of the

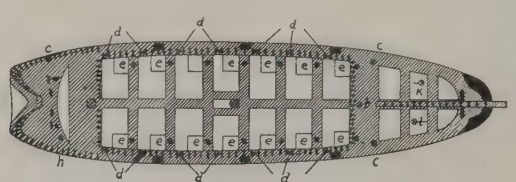


Fig. 170. — Deck plan with colors.

stools. Each figure is cut out of one piece. The whole boat is covered with coat of plaster and painted. The top of mast was first painted red and then black.

Preservation : Third rower on right, split and worn.

Bibl. : *Journal d'entrée du Musée*, n° 30519.

[1] For oars, see n°s 4870 and 4871.

4870. Nine oars from models of ships [1]. — Wood. — Length 1, 0 m. 15 cent.; 2, 0 m. 17 cent.; 3, 0 m. 16 cent.; 4, 0 m. 158 mill.; 5, 0 m. 14 cent.; 6, 0 m. 17 cent.; 7, 0 m. 17 cent.; 8, 0 m. 17 cent.; 9, 0 m. 19 cent. — Meir.

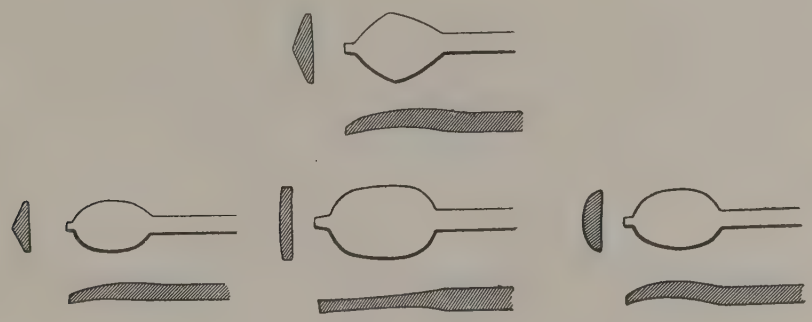


Fig. 171. — Oars.

Rudely whittled. Four are painted yellow, three of which have a black band around handle. See fig. 171.

4871. Five oars from the model of a ship [1]. — Wood. — Length 0 m. 155 mill. (four), 0 m. 165 mill. (one). — Meir.

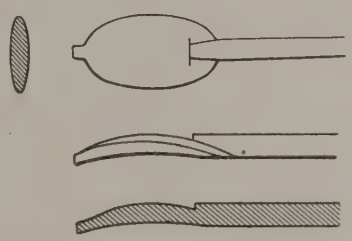


Fig. 172. — Oars.

Carefully whittled and smoothly scraped. Two have a black band around upper part of handle. See fig. 172.

4872. Model of a ship with rowers. — Wood. — Length 1 m. 29 cent., wide 0 m. 20 cent., height amidships 0 m. 13 cent. — Meir (pl. XII).

Fig. 173.

Hull : Similar to n° 4844.

Rigging : Square hole for mast, in middle of white block. Rudder-post, similar to n° 4798. Two holes (c) through outer edges of tip of stern (for fastening rudder?). A number of other holes through the rail, in addition to holes for fastening oars [2], may have served for holding sail ropes though some of them (d) have never been used. Rudder like n° 4822 (0 m. 575 mill. and 0 m. 19 cent.). See fig. 173.

[1] See n° 4869.

[2] For the oars, see n°s 4873, 4874, 4875.

Crew : Peg-hole for helmsman (h). Deep rectangular hole for lookout (l) occupied by a standing figure, feet together, arms outstretched, hands closed with palms in, short skirt, short wig covering ears. Twenty rowers, similar to those on n° 4798-4801 (stools or blocks are modern). See fig. 174.

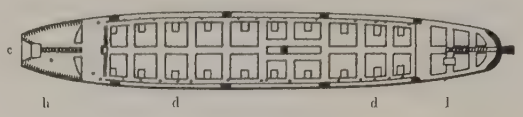


Fig. 174. — Deck plan.

Coloring : Hull red. Deck white with red bars and black marks. Rudder-post red with three black bands around upper part of square part. Rudder like n° 4822. Figures, — red skin, black hair parts (side beard), white skirt, white white-of-eye.

Technique : Two small rectangular pieces set into middle of left side. Bow-stick, pegged on. All figures (except helmsman) rest in rectangular holes. The lookout has prolongation of feet which rests in hole. Mast and rudder-post also rested in holes. Rudder and rudder-post covered with plaster and painted. Figures, cracks filled with plaster and painted. Arms of figures pegged on. Some figures, numbered in black or red.

Preservation : Stern glued on.

Bibl. : *Journal d'entrée du Musée*, n° 30587 (?).

4873. Fourteen oars from model of ship. — Wood. — Length 0 m. 175 mill.-0 m. 195 mill.

Fig. 175. — Oar.

Rudely whittled. Black band around upper part of handle. See fig. 175.

4874. Three oars from model of ship. — Wood. — Length 0 m. 18 cent., 0 m. 185 mill., 0 m. 19 cent.

Rudely whittled. Painted yellow with black band around middle of handle.

4875. Oar from model of ship. — Wood. — Length 0 m. 165 mill.

Like n° 4871 ; blade smaller.

4876. Oar from model of ship. — Wood. — Length 0 m. 167 mill.

Similar to n° 4871, blade larger. Painted yellow with black band.

4877. Oar from model of ship. — Wood. — Length o m. 18 cent.

Smoothly whittled. Painted yellow with broad black band around upper part of handle. On front of blade, in red, the numeral III. See fig. 176.

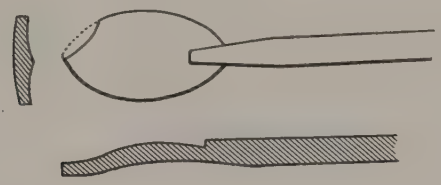


Fig. 176. — Oar.

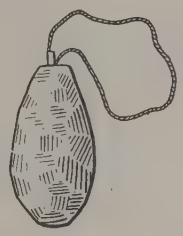


Fig. 177. — Buffer.

4878. Bumper from model of ship. — Wood. — Length o m. 07 cent.

Wooden body. String fastened in peg-hole with peg. Body very rudely whittled and painted red. See pl. XII and fig. 177.

4879. Bumper from model of ship. — Wood. — Length o m. 083 mill.

Round body with neck and sort of conical cap to which a short string is attached, forming a loop. Body red. Cap black. Black band around body. String fastened in hole by a peg. Broken end of peg in hole in bottom (a) and print around it as if the bumper had been fastened by this peg to deck. See pl. XII and fig. 178.

Fig. 178. Buffer.

4880. Model of ship with canopy[1]. — Wood. — Length 1 m. 065 mill., width o m. 156 mill., height amidships o m. 082 mill. — Meir (pl. XII).

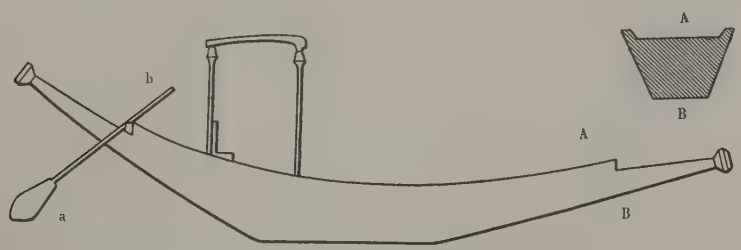


Fig. 179. — Profile and section.

Hull : Similar to n° 4808 but more slender. Bottom flat from end to end. See fig. 179.

[1] N°s 4880-4893 are from the tomb of Pepy-n-anch-kam (according to *Cat.* 1895 and to E. Brugsch Pasha).

Rigging : No mast nor rudder-posts. Rough rudders (two) with pointed blades (a). Rest for rudder (b and fig. 180). Broad paddles in hands of paddlers (fig. 181).

Fig. 180. — Rudder-rest.

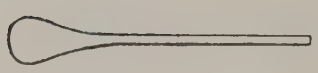


Fig. 181. — Paddle.

Fig. 182.

Fig. 183.
Section, canopy roof.

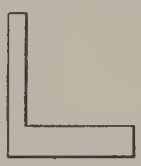


Fig. 184. — Chair.

Furniture : Canopy with four posts and roof (figs. 182, 183). Under the canopy, a low chair with back (fig. 184).

Crew : Helmsman (h), squatting figure with knees drawn up, arms hanging, bent at elbow, hands closed, palms, in and pierced (fig. 185). Lookout (l), standing, left

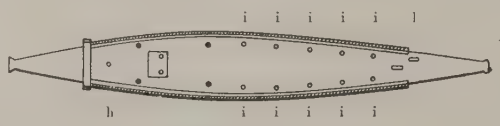


Fig. 185. — Deck plan.

foot advanced, left arm extended slightly bent, hand closed, palm in, right arm missing. Ten paddlers, facing bow, five on each side (i), squatting like fig. 186, arms extended, the inside arm above the outside one, hands closed palms in and pierced, instead of garment, simple white band around waist. No beard on any of the figures.

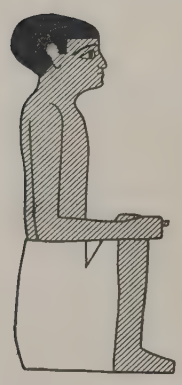


Fig. 186. — Steersman.

Coloring : Hull and deck, cream color. Rail, red. Rudders, posts of canopy and paddles unpainted. Roof of canopy, white. Figures, red skin, black hair parts, white garments, white white-of-eye.

Technique : Hull cut out of a single piece. Rest for rudders and seat fastened with two pegs each. Helmsman and paddlers, fastened with one peg each. Posts of canopy rest below in holes in deck, above peg-like projections fit in holes in roof. Back and front of roof, have strip set on on underside. Lookout, prolongation of each foot rests in hole in deck. Arms of figures, fastened with one peg in each arm. The arms of steersman are of two pieces each, joined at elbow by peg (fig. 187). The handles of paddles are inserted in the holes

Fig. 187.
Elbow-joint, steersman.

in fists of paddlers. Figures covered with plaster and painted. Paddlers have the space between the legs sawed out (fig. 188) and are numbered in black ink, those on left being marked ⁂ and those on right being marked ×. White, plaster laid on and roughly smeared with some substance possibly white of egg.

Fig. 188. Section legs of paddler.

Preservation : Blades of five paddles and one whole paddle wanting : one other broken and glued. Left arm of lookout gone and white much scaled off.

Bibl. : *Journal d'entrée du Musée*, n° 30799. *Catalogue*, 1895, n° 1359.

4881. Model of ship with canopy[1]. — Wood. — Length 0 m. 80 cent., width 0 m. 145 mill., height amidships 0 m. 065 mill. — Meir (pl. XIII).

Hull, rigging, furniture, crew, coloring and technique, like n° 4880, except in size and number of paddlers. Eight paddlers. Legs not separated as on n° 4880. The right arm of lookout is preserved, is extended and holds the end of a stick in the hand (fig. 189). Seat held by one peg instead of two.

Fig. 189. Hand of lookout.

Preservation : Piece broken or worn out of rail near bow, left side. Handles of five paddles preserved.

Bibl. : *Journal d'entrée du Musée*, n° 30800. *Cat.*, 1895, n° 1359.

4882. Model of sailing boat of type I[1]. — Wood. — Length 0 m. 428 mill., width 0 m. 14 cent. — Meir (pl. XIII).

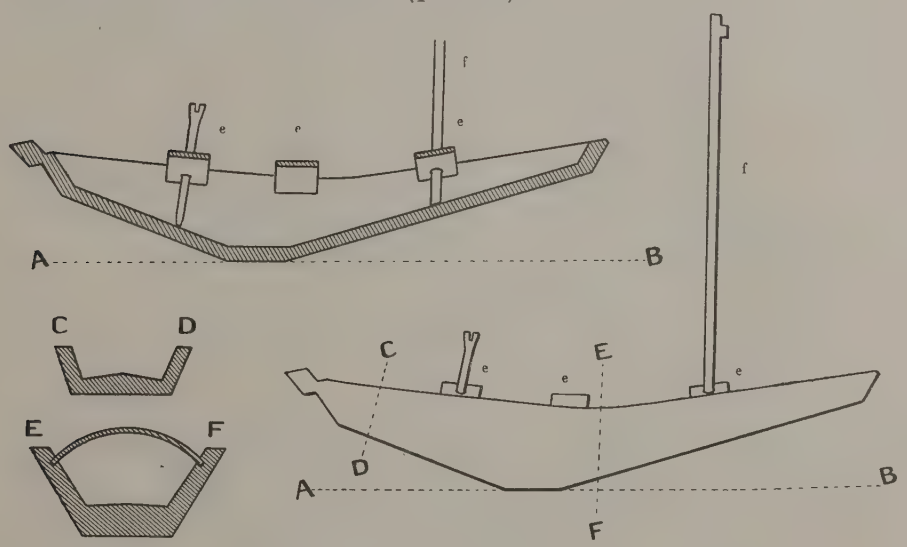


Fig. 190. — Profile and three sections.

Hull : Broad flat boat with bow and stern square cut. Stern has small projection (fig. 190)

[1] See n° 4880, note.

on each side as rudder-rest. Hollowed from end to end (section A-B). Three seats (e), broad and curving.

Rigging : A two-legged mast (*f* and fig. 191) pierced by a number of holes through the top, two through from front to back (g), one from side to side (h), the rest through

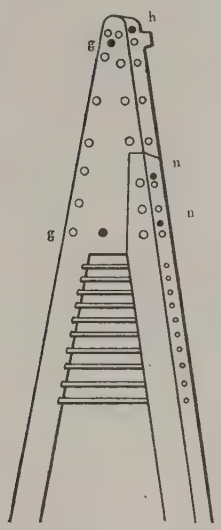


Fig. 191. — Top of mast.

Fig. 192. — Rudder-posts.

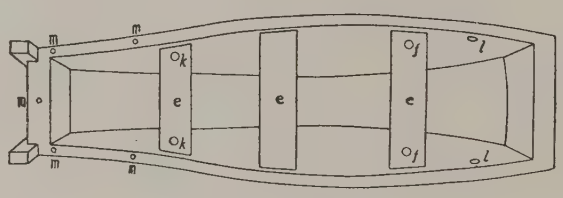


Fig. 193. — Plan.

the back edges. In the first seat from stern two slanting posts[1] with slot in head (fig. 192). In the bow, side of boat is pierced by hole on each side (l, fig. 193). In stern five small holes through outer edge of rail, for ropes (m).

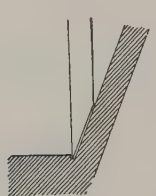


Fig. 194. Base of mast.

Coloring : None.

Technique : Hull, cut out of one piece, finished smoothly with sharp straight edges. Seats bent and sprung into slots in side of boat. Ends of mast and posts, after passing through holes in seats, rest in shallow holes in boat. Ends of posts flattened on side next wall of boat (fig. 194). Double mast of two pieces (see fig. 191) held together by two pegs (n) and by ten small cross pieces near top.

Preservation : Stern slightly and bow badly split open.

Bibl. : *Journal d'entrée du Musée*, n° 30801.

4883. Model of a sailing boat of type I[2]. — Wood. — Length 0 m. 405 mill., width 0 m. 14 cent. — Meir (pl. XXVII).

Except for few details, exactly like n° 4882. The hole *l* on the left side is bored through the rail from the top instead of from the side. There are six holes for ropes in stern

[1] Possibly supports for a cross-piece, a rest for the rudders.

[2] See n° 4880, note.

instead of five (fig. 195). Piece of small string around right leg of mast, between the cross pieces; other pieces in the holes above.

Preservation : Knot hole knocked out of bottom and another out of middle seat. Bow, split. One of posts in stern seat gone, and the other broken off half way up.

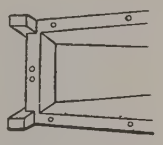


Fig. 195. — Stern.

Bibl. : *Journal d'entrée du Musée*, n° 30802. *Cat.*, 1895, n° 1359.

4884. Model of a sailing boat of type I[1]. — Wood. — Length 0 m. 413 mill., width 0 m. 125 mill. — Meir.

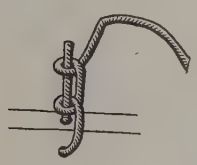


Fig. 196.
Rope knot in rail.

Except for trifling details, like n° 4882. Six rope holes in stern like n° 4883. Bit of string (sail rope) on one side, knotted in hole (fig. 196).

Preservation : Mast and posts, missing. Bow and stern, very slightly split open.

Bibl. : *Journal d'entrée du Musée*, n° 30803. *Cat.*, 1895, n° 1359.

4885. Double legged mast from the model of a boat[2]. — Wood. — Height 0 m. 355 mill. — Meir.

Like the mast on n° 4882, but with five holes on one edge above and six on the other. Bits of string are still in the holes on edge (fig. 197) and four pieces are tied around one leg between cross pieces (fig. 198). A small piece of larger coarser

Fig. 197. — Rope-knot in hole.

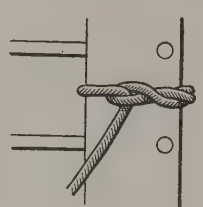


Fig. 198. — Rope-knot on mast.

string is wedged in between top cross piece and top. The ropes are not knotted but the end is simply looped around the main thread and twisted under; in the case of fig. 197 the end is also stuffed in the hole. The main thread is in every case pulled down straight as if it had been fastened to something below.

Preservation : Right leg broken off close to cross pieces.

(1) See n° 4880, note.
(2) Belongs to n° 4884 (or possibly to n° 4886?).

4886. Model of a sailing boat of type I with canopy [1]. — Wood. — Length 0 m. 445 mill., width 0 m. 146 mill. — Meir (pl. XIV).

Hull : Very much like n° 4882, but with a rail projecting beyond side of boat and running out much beyond the stern (fig. 199). The lateral projection (beyond the

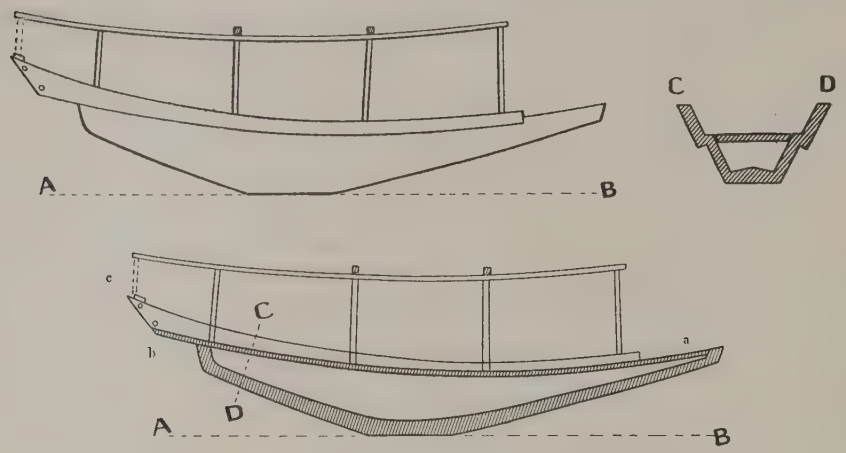


Fig. 199. — Profile and two sections.

sides) is greater towards the stern. The deck consists of a single board (fig. 199, section C-D) set in flush with sides of boat (rail rising above) and projects beyond the stern as far as the rail (fig. 199, section A-B, b). The two projecting ends of rail at stern are connected by stick laid across the top (c).

Rigging : Just back of second canopy posts (from bow), a pair of holes, one on each

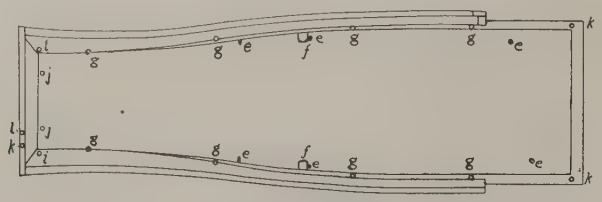


Fig. 200. — Deck plan.

side, are cut in deck as if to admit ends of double legged mast (*f*, fig. 200). There are besides at the stern a pair of holes (bit of string in one) in rail (*i*), a pair in deck (j), and a pair in bow (k).

Crew : None.

Furniture : Long frame-work of a canopy, supported originally by five posts on each side (fig. 199), on which rests a long board or beam on each side and five curving

[1] See n° 4880, note.

beams (fig. 201) one connecting each pair of posts. See also holes *i*, *j*, *k* and hole in cross-piece of stern (1).

Coloring : None.

Technique : Bottom and rail cut out of one piece. Deck, of a single board set in and held by four slanting pegs (e). The posts of the canopy rest below in eight holes (g) in

Fig. 201. — Canopy roof.

Fig. 202. — Canopy roof, bond.

Fig. 203. — Stern piece, bond.

sides of boat and in two holes (only one of which is preserved) (*h*) in cross piece on stern. Above, the ends of the post pass through holes through side beams into holes in the cross-pieces (fig. 202). The cross-piece in stern is bound on with string which passes through two holes in cross-piece and one in rail (fig. 203). In the case of second cross-piece of canopy (from bow) the posts are not opposite and the cross-piece is connected by peg resting in separate hole in side beam.

Preservation : Three cross-pieces, three posts and back end of right side beam gone from canopy. Two thirds of cross-piece in stern, broken off. Deck in stern and the bow, split open.

Bibl. : *Journal d'entrée du Musée*, n° 30804. *Cat.*, 1895, n° 1359.

4887. Model of a ship with mast (type I)[1]. — Wood. — Length 0 m. 475 mill., width 0 m. 145 mill. — Meir (pl. XIV).

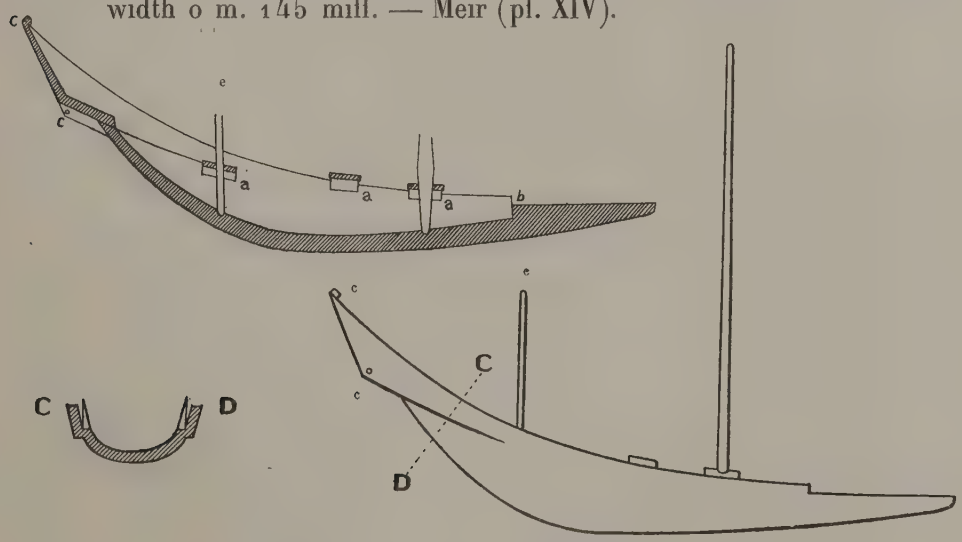


Fig. 204. — Profile and two sections.

Hull : Similar to n° 4886, but with rounded stern and bow and rounded bottom. Rail does not project beyond the sides exept at stern. No deck. Three seats (fig. 204, a),

(1) See n° 4880, note.

Catal. du Musée, n° 4798.

Hollowed from stern to within o m. 11 cent., of bow. Rail runs forward only as far as hollow part (b). Aft, the projecting ends of rail are connected by two cross-pieces (c); and these cross-pieces are joined and connected with tip of stern by a bent stick (elbow) (fig. 205, d).

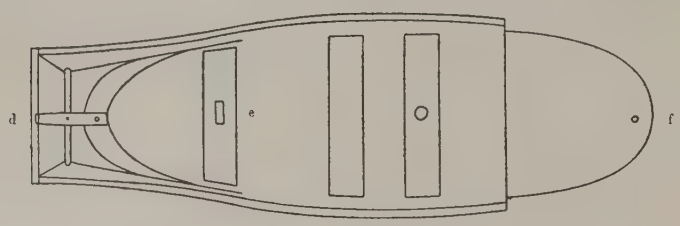


Fig. 205. — Deck plan.

Rigging : Tapering mast flattened towards top, square and pointed below, in first seat from bow. Tip of mast penetrated by two holes from front to back and seventeen from side to side (fig. 206). In first seat from stern, a flat post, with round top, perforated by a large hole (fig. 207). One small vertical hole through tip of bow (f).

Fig. 206. Mast-tip.

Fig. 207. Post *e*.

Furniture and crew : No trace.

Coloring : None.

Technique : Post and mast pass through holes in seats and rest in shallow depressions in bottom. Hull cut out of single piece. Seats sprung in like n° 4882. Lower cross-piece (c) rests in holes in rail. Upper cross-piece fastened by strings at ends, which pass through one hole in cross-piece and one in rail, being wrapped a number of times through the holes and also around between the rail and the cross-piece (fig. 208). The elbow has a flat upper end passing through hole in upper cross-piece; the other arm is fastened by peg to hull.

Fig. 208. Bond, upper cross-piece *c*.

Preservation : Bow slightly split. Dirty.

Bibl. : *Journal d'entrée du Musée*, n° 30805. *Cat.*, 1895, n° 1359.

4888. Model of ship with mast[1]. — Wood. — Length o m. 476 mill., width o m. 13 cent. — Meir (pl. XV).

Hull : Like n° 4887 except there is no raised projecting rail and therefore no frame-work about stern, and that the solid part at the bow is cut out leaving a

[1] See n° 4880, note.

surface about 0 m. 004 mill., lower that top of side but 0 m. 013 mill., higher than bottom, in middle.

Rigging : Like n° 4887, with the addition of eight holes in stern for ropes (fig. 209). Only eleven holes from side to side and two from front to back, in top of mast. Bit

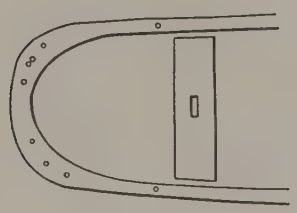


Fig. 209. — Stern.

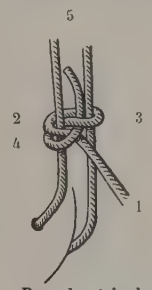


Fig. 210. — Rope-knot in hole, stern.

of string through one hole. Through middle hole in stern, a bit of string is looped and the ends bound with another bit of string (fig. 210).

Furniture, crew, coloring : Like n° 4887, none.

Technique : Seats sprung in like n° 4882 (4887). Mast and post like n° 4887.

Preservation : Slightly split, stern and bow.

Bibl. : *Journal d'entrée du Musée*, n° 30806. *Cat.*, 1895, n° 1359.

4889. Spar from model of a ship[1]. — Wood. — Length 0 m. 31 cent. — Meir.

Whittled. Thicker in middle, tapering at ends.

4890. Spar with remnant of sail from model of ship[1]. — Wood. — Length 0 m. 308 mill. — Meir (pl. XXVIII).

Thicker in middle, tapering towards the ends. Roughly whittled. The edge of sail is bound by rolling the cloth and binding with over and over stitch with heavy thread. This is the edge next to spar. The sail is then bound to spar by string which passes around the spar and through the sail over and over, like the binding stitch. At the end this string is tied to another string which is wrapped seven times, binding corner of sail fast to spar. The string fastening sail to spar is strengthened along the middle by another string tied on.

4891. Spar from model of ship[1]. — Wood. — Length 0 m. 255 mill. — Meir (pl. XXVIII).

Fig. 211. — Spar.

Thicker in middle, tapering towards the ends.

Bow-shaped, with a swelling on under-side of middle. Large hole at swelling. Well smoothed. One side, a trifle longer than the other. See fig. 211.

[1] See n° 4880, note.

4892. Spar from the model of a ship[1]. — Wood. — Length o m. 37 cent. — Meir (pl. XXVIII).

Fig. 212. — Spar.

Like n° 4891 but larger. Bound with a string (by which the sail was fastened) woven in a running reive along the back with loops at narrow intervals. At the tips, the string is broken off. Around one arm near end a bit of string of lighter color is tied (knot modern?). See fig. 212.

4893. Spar with remnant of sail from model of ship[1]. — Wood. — Length o m. 235 mill. — Meir.

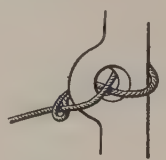


Fig. 213. — Spar.

Spar like n° 4891. Sail bound and fastened to spar like n° 4890 (? according to fragments of string apparently undisturbed; the sail is now held by strings tied with modern knots). A string is passed in and out through the hole in middle and looped through itself. See fig. 213.

Fig. 214. Mast-tip.

4894. Mast from the model of a ship. — Wood. — Length o m. 447 mill. — Meir[2] (pl. XXIX).

Crooked, tapering. Flattened at the top; square at bottom. Four holes in top; black and white rings around the top. See fig. 214.

4895. Six oars from the model of a ship. — Wood. — Length o m. 18 cent.-o m. 19 cent. — Meir[3] (pl. XXVII).

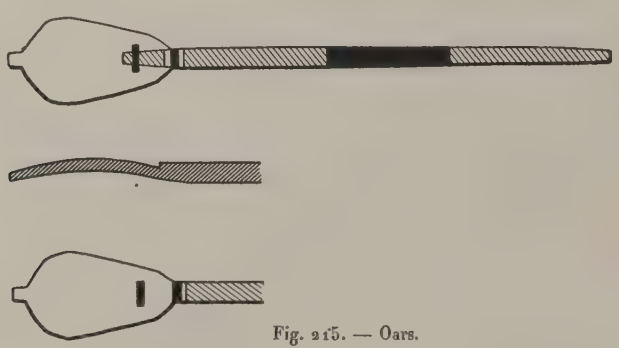


Fig. 215. — Oars.

Shaped similar to n° 4871. Handle, yellow with broad black band around the middle; blade white; a black band and two black marks one on each face at juncture of handle and blade. See fig. 215.

[1] See n° 4880, note.

[2] Belongs with the Meir objects bearing numbers 4798-4879, not with 4880-4893. Same is true of the following numbers, 4895-4908.

[3] See n° 4894.

4896. Piece from the bow or the stern of a ship. — Wood. — Height 0 m. 18 cent. — Meir[1].

One side flat, the rest round (fig. 216). Flat disc on top. Painted yellow with white, black and red stripes, and black and red rosette on top of disc. Covered with thin

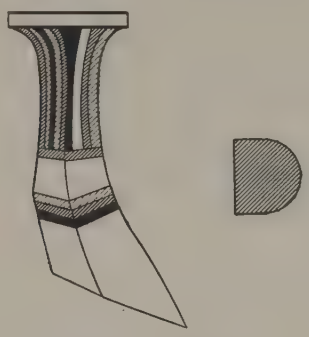


Fig. 216. — Stern-post.

Fig. 217. — Rosette.

coat of plaster and painted. Lower part smeared with plaster when it was fastened by restorer to n° 4860. See fig. 217.

4897. Box-like object from the model of a ship of the sun. — Wood. — Height 0 m. 06 cent. — Meir[1].

Painted yellow over a coat of plaster. Traces of red apparently accidental. Fastened to ship by two pegs of which one is preserved. See fig. 218.

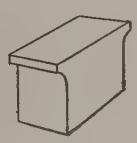


Fig. 218.

4898. Box-like object from the model of a ship of the sun. — Wood. — Height 0 m. 052 mill. — Meir[1].

Like n° 4897. Originally painted white with red stripes, now only traces left.

Fig. 219.

4899. Sitting figure from the model of a ship. — Wood. — Height 0 m. 13 cent. — Meir[1].

Left knee drawn up with foot flat on ground; right leg bent and thrust through behind the left foot. Face forward. Arms extended, the left one higher, hands open, palms down. Short white skirt reaching from waist to knees. White band around top of head. Red skin, black hair-parts including side beard. Black iris. White, white of eye. Back of head and waist badly worn or worm-eaten. Peg in bottom. See fig. 219.

[1] See n° 4894.

4900. Squatting figure from the model of a ship. — Wood. — Height 0 m. 08 cent. — Meir[1].

Fig. 220.

White garment crossing over left shoulder and under right arm, covering the feet. Right arm extended, broken off close to shoulder. White ring around top of head. Wig, eyelashes, eyebrows, side beard, iris, black. White of eye, white. Skin, red. Very roughly cut; features only painted on. White is of plaster. Cracks filled with plaster and painted. Right arm fastened on with plaster. Pegged to deck. See fig. 220.

4901. Squatting figure (steersman) from the model of a ship. — Wood. — Height 0 m. 07 cent. — Meir[1].

Fig. 221.

Similar to n° 4900 with right arm (now gone) thrust out. Garment seems to have passed over right shoulder as well as left leaving right arm uncovered. Arm fastened on with plaster like n° 4900. Well cut features. No ring on head. Originally pegged to deck of ship, the sloping part in stern. See fig. 221.

4902. Squatting figure from model of ship. — Wood. — Height 0 m. 075 mill. — Meir[1].

Like n° 4851, figure 142. Knot broken out of left shoulder. White almost entirely gone.

4903. Squatting figure from model of ship. — Wood. — Height 0 m. 076 mill. — Meir[1].

Like n° 4851, figure 142. Has however black cheek beard. Small hole in breast (accidental?). White almost entirely gone.

4904. Squatting figure from model of ship. — Wood. — Height 0 m. 095 mill. — Meir[1].

Like n° 4851, figure 142. Colors, rubbed.

4905. Figure sitting on a low stool from model of a ship. — Wood. — Height 0 m. 11 cent. — Meir[1].

Fig. 222.

Similar to n° 4802 figure 29. Garment thrown across in front from the right, edge being marked by incised line. Low block, of one piece with figure; the edges and one vertical stripe in middle of each face are red, painted over with black. See fig. 222.

[1] See n° 4894.

4906. Figure sitting on a stool from the model of a ship. — Wood. — Height o m. 115 mill. — Meir[1].

Fig. 223.

Similar to n° 4802 figure 29 and to n° 4905. Ears, exposed. Garment like n° 4905, edge (rolled or hemmed) marked by two incised lines. Feet uncovered, and separated. Piece sawed out between feet. Stool, red. Rough work. See fig. 223.

4907. Roof of canopy from model of ship. — Wood. — Length o m. 12 cent. — Meir[1].

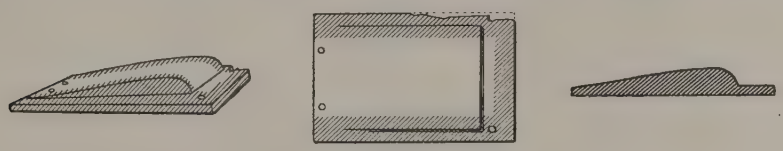


Fig. 224.

Painted white and yellow. Underside, yellow. Front part supported originally by two posts. Back, supported by a wall like on n° 4841, now gone leaving unpainted strip across underside at the back. White is of plaster. Cracks filled with plaster, and painted. See fig. 224.

4908. Rudder from model of ship. — Wood. — Length o m. 46 c., length blade o m. 15 cent. — Meir[1] (pl. XXV).

Fig. 225. — Rudder.

Pointed blade. Handle swelling in the middle. Hole in end (a) with bit of twine. Slanting hole for handle (b). Painted red and white with black marks on blade and base of handle. Knot hole in blade, originally filled with plaster (c). See fig. 225.

4909. Model of ship with rowers. — Wood. — Length o m. 59 cent., width o m. 165 mill., height amidships o m. 094 mill. — Deir el-Bahri (Temple), Jan., 1896. Tombeau de Mentu-hotep, or Buau (pl. XV).

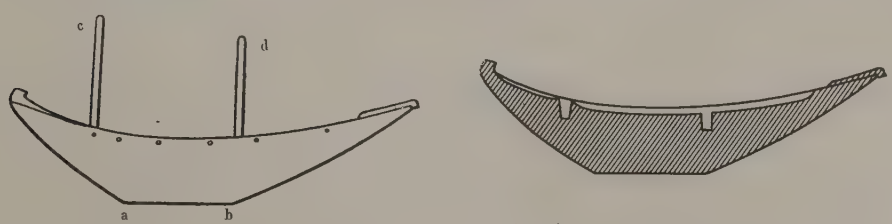


Fig. 226. — Profile and section.

Hull : Deep, with short stern a trifle higher than bow (fig. 226). Tip of stern, has a

[1] See n° 4894.

block on top. Bow has projecting stick like n° 4798. Deck hollowed like n° 4845. Bottom flattened *a-b;* beyond rounded. Tip of stern hollowed in the middle as rest for rudder (fig. 227).

Rigging : Rudder-post (c). Mast rest (d) similar to n° 4834, in the mast hole. Six holes through edge of rail on the right side and seven on the left (e). Five of these must be for fastening the oars. A hole through each side of stern (f). Rudder-post like that on n° 4798 but no groove on top.

Fig. 227.
Stern, section.

Fig. 228.
Steersman.

Fig. 229.
Loukout.

Fig. 230.
Rower.

Crew : Steersman (g) squatting figure, white garment passing over left shoulder and under right arm (fig. 228); right arm bent, fore-arm resting against knee. Lookout (*h*) standing left foot advanced, left arm resting on breast, right arm hanging slightly extended hand closed and pierced (fig. 229). Short white skirt, short wig. Ten rowers five on each side (i), sitting on red bars, short skirt, short wig, hands on knees (fig. 230).

Coloring : Hull, red. Deck, white with red bars and black marks (see figure 231). The large black marks along the rail and on tip of bow extend over on to side of boat, outside. Rudder-post, red. Mast rest, white with red band around base. Figures, black hair-parts and iris; white garments; white white-of-eye; brown skin.

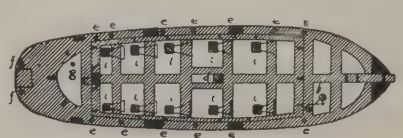


Fig. 231. — Deck plan with colors.

Technique : Hull, of one piece. Rudder-post and mast-rest inserted in square holes. Steersman, fastened with peg. Lookout, ends of legs (no feet) rest in holes. Rowers, feet rest in holes, fastened on with plaster. Hull, covered with plaster and painted. Each figure is of one piece, except the lookout which seems to have the right arm fastened on.

Preservation : Tip of bow and left side slightly damaged.

Bibl. : *Journal d'entrée du Musée,* n° 31347. *Cat.,* 1895, n° 1373 *a.*

4910. Model of a ship with cabin. — Wood. — Length o m. 59 cent., width o m. 165 mill., height amidships o m. 09 cent. — Deir el-Bahri (Temple), Jan., 1896. With n° 4909 (pl. XVI).

Hull : Like n° 4909.

Rigging : Like n° 4909. Five holes through rail on left side with strings tied through them (fig. 232), and six, five of which have strings, through the right rail (fig. 234, m). Pair in stern like n° 4909 (fig. 234, n).

Fig. 232. — Rope knot in hole in rail.

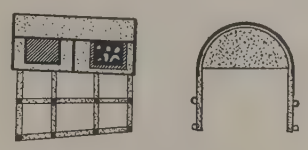


Fig. 233. — Cabin.

Furniture : Cabin, a curved roof with closed gable behind, supported on each side by four ports (fig. 233) joined together by two pieces running lengthwise. Just back of mast rest a small black conical object on a flat block (c and fig. 235). In front

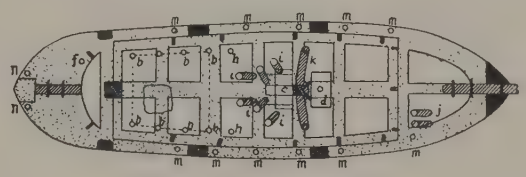


Fig. 234. — Deck plan.

of mast rest a rectangular block (d) on top of which something was once fastened with plaster. The lookout carries in right hand a bumper (fig. 236) in the upper end of which a string is fastened.

Fig. 235. — Object *c*.

Fig. 236. — Buffer.

Fig. 237. — Owner (g).

Crew : Helmsman (f) like n° 4909, short wig. In cabin, sitting figure (g) body and arms covered with white garment, short wig covering ears (fig. 237). In front of canopy, one sitting figure on each side (h) facing bow similar to *g'* except without wig, ears exposed. Three figures just back of mast-rest (i) the middle one smaller. The small one faces forward, the other two look in towards mast-rest; standing,

feet and legs separated, arms bent, hands joined just above waist (fig. 238); short white skirt; the small one has a wig, ears covered; the other two are without wigs. The feet are painted on the deck. Lookout, standing figure, similar to fig. 238 except arms hanging, left hand open palm in, right hand closed and pierced (j). Total crew, eight.

Fig. 238. Sailor.

Coloring : Hull, *yellow*. Deck, white with *yellow* bars and black marks (fig. 234). The continuation of middle beam in stern and the bow stick, red. Rudder-post, red. Mast rest, white; on the base and on the deck in front, the mast shoe (k) is painted in red with four black marks (fig. 239). The cabin, inside white; outside, yellow back-ground with red, white and black pattern (fig. 240). The posts are yellow with black marks where they cross[1]. The figures have white garments, black hair-parts, red skin, black iris, white white-of-eye. The object *c* is black; the upper surface of block is white; the sides natural color of wood. The other block is white. The bumper is white with black spots.

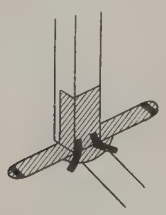


Fig. 239. — Colored representation of mast-shoe.

Fig. 240. — Roof of canopy.

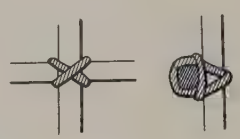


Fig. 241. — Bond of cabin-frame.

Technique : Hull, of one piece including bow stick. Rudder-post, and mast-rest, inserted in square holes. Ends of cabin-posts inserted in holes in deck and in edge of roof; the upper stick running lengthwise is bound to the end posts where they cross with string. The string is passed around horizontal bar on each side and back of post and is finally wrapped around between bar and post (fig. 241). The lower stick is fastened to *posts* and to deck at base of posts with plaster; the closed gable behind is also fastened with plaster to the rudder-post. The steersman *f* and the two figures *h*, also the block *d* are fastened with a single peg each. The figure *g* is fastened with plaster, also the block *c*. The four standing figures have ends of legs stuck in holes in deck and the feet painted on deck. The arms of lookout, alone, are separate pieces pegged on. The back end of gable of cabin is separate piece set in, fastened with pegs (? or plaster alone). Covered with thin coat of plaster and painted.

Preservation : Split at bow. One post of cabin, gone.

Bibl. : *Journal d'entrée du Musée*, n° 31348. *Cat.*, 1895, n° 1373 *a*.

[1] The bars are actually tied with string at these points, see technique.

4911. Model of a ship with canopy and rowers. — Wood. — Length 1 m. 44 cent., width 0 m. 175 mill., height amidships 0 m. 09 cent. — Bought at Luxor, 1889 (pl. XVI).

Fig. 242. — Bow.

Hull : Similar to n° 4808. Bow sprit depressed so as to run almost horizontal (fig. 242). Cross-piece for rest for rudders like n° 4807. Raised rail runs only from rudder-posts to back of last pair of rowers.

Rigging : No trace of mast except a crooked stick which might be a spar and may not belong to this boat. Two rudder-posts, rough sticks pierced from side to side near the top (fig. 243, b). Two rudders like n° 4818. In one of them the handle is still

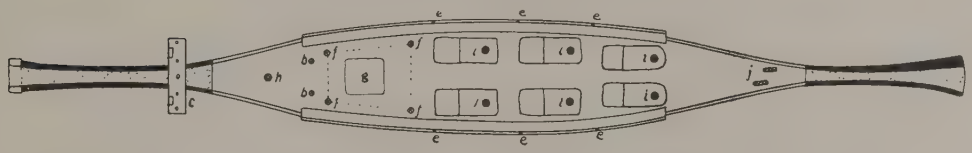


Fig. 243. — Deck plan.

preserved, the lower end being in the fist of helmsman. The rudder-rest (c and fig. 244) has two notches and four holes, two on each side, for holding the rudders. A string passes through each pair of holes and over the rudders. Each figure holds in its hands an oar (fig. 245); six holes (e) for the strings which served as oar locks.

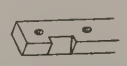


Fig. 244. — End of rudder-rest.

Fig. 245. — Oar.

Fig. 246. — Rower.

Furniture : Canopy like n° 4808 (f). Under the canopy a chair similar to n° 4808, with high back (g and fig. 248), peg hole in seat.

Crew : Steersman (h) similar to 4808 *p*. In chair, originally a sitting figure (?). Six oarsmen (i) sitting; arms bent at elbows, fists closed palms down, pierced; facing stern (fig. 246); short skirt; short black wig covering ears; legs from knees down not represented. Lookout (j) like figure *q'* on n° 4808, except the right hand is closed and the left open. Total crew eight (originally nine?).

Coloring : Body of ship, hull and deck, white. The bow and the stern, yellow with black beveled edges (fig. 242). Rudder-posts, yellow. Rudders, traces of yellow.

Canopy, yellow; the posts with three black rings each like on n° 4808; the roof with white, black and red vertical bars across front (fig. 247). The chair is yellow with white edges (fig. 248). Oars, yellow. Figures like those of n° 4808 [1].

Fig. 247. — Edge of canopy roof.

Technique : Hull, of one piece. Canopy, like n° 4808. Rudder-posts, in holes. Rudder-rest held by peg. Each figure fastened to deck by single peg except the lookout which stands with each foot in hole in deck. The arms of all the figures fastened on at shoulder each with one peg. The forearms of rowers are joined to elbow with tongue and slot, held by the plaster (fig. 249). The knees of rowers, a separate block joined to legs at bottom of skirt with two pegs (fig. 250). Seat fastened with one peg. Figures of rowers on right marked with black cross (T), on left with a line (|).

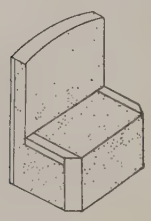


Fig. 248. — Chair.

Fig. 249. — Elbow-joint, rower.

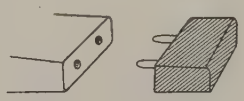


Fig. 250. — Knees of rower.

Preservation : Very dirty. Colors damaged. Tip of bow and of stern, broken. One post of canopy, right forearm of one rower, gone. Feet of lookout broken off and glued on (left foot does not belong?)

Bibl. : *Journal d'entrée du Musée*, n° 28817. *Cat.*, 1895, n° 102 [1].

4912. Model of a ship with sailors and rowers. — Wood. — Length 0 m. 59 cent., width 0 m. 137 mill., height amidships 0 m. 065 mill. — Saqqarah, 1884.

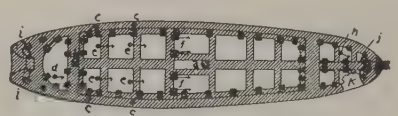


Fig. 251. — Deck plan.

Hull : Like n° 4798 but very small. Deck like n° 4845 but no depression in stern.

Rigging : Round hole (fig. 251, a) for mast. Single rudder post (b), like on n° 4798; hole bored in right side near top not running through. Oars, two, one large, one small, small one like n° 4863 (originally four oars). Two holes on each side for fastening oars (c).

[1] Gives provenance as Saqqarah 1889.

Crew : Helmsman (d), squatting, left arm bent, fist closed palm in and pierced, garment passing over right shoulder and under left arm, short wig covering ears (fig. 252). Four rowers, two on each side sitting at rest facing bow, garment drawn up over shoulders (e and fig. 253); the back pair is smaller. Four sailors, side by side, feet together, hands raised palms in and pierced, short skirt and short wig (f). Lookout (h-k) stood with right foot advanced (in hole k)[1]. Total crew ten.

Fig. 252. Helmsman.

Coloring : Hull, red. Deck, white with red bars and black marks (fig. 251). Black mark on tip of bow extends around on the underside. Rudder-post, red. Figures, red skin, black hair-parts, white skirt, white white-of-eye, black iris. Oars, yellow.

Fig. 253. Rower, at rest.

Technique : Tip of bow and of stern, pegged on; lines *i* and *j* mark edges of separate pieces. Bow stick, figures of helmsman, rowers and lookout *h*, pegged on. Sailors stand in holes in deck. Arms of sailors, right arm of lookout *k* pegged on. Rudder post stands in hole. Covered with plaster and painted.

Preservation : Bow damaged. Figures more or less worm-eaten; one of the sailors, legs entirely gone.

Bibl. : *Journal d'entrée du Musée*, n° 25843. *Cat.*, 1895, p. 26, near n° 102.

4913. Model of ship with rowers. — Wood. — Length 0 m. 725 mill., width 0 m. 14 c., height middle 0 m. 078 mill. — Saqqarah, 1884 (pl. XVII).

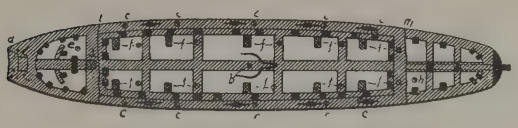


Fig. 254. — Deck plan.

Fig. 255. — Mast tip.

Fig. 256. — Rower.

Hull : About like n° 4805, longer and more slender.

Rigging : Rudder-post like n° 4912 (fig. 254, a). Mast (fig. 255) is a tapering stick, with two eye holes through tip. Oars like n° 4912, passed through holes in the hands of rowers; holes (c) in rail for fastening oars. Holes through tip of stern, one pair for fastening rudder (d).

Crew : Helmsman (e) like n° 4912 except that he sits on left side and has right arm uncovered. Ten rowers, five on each side, facing stern; about like rowers on n° 4845 (fig. 256), no beard, arms resting on knees, hands together and pierced with hole slanting outwards (in same direction as handle of oar). Lookout (h), on right of bow. Total crew, twelve.

[1] The figure (k) now here belongs to n° 4917.

Coloring : Hull, red. Deck, white with red bars and black marks similar to n° 4912; note the spindle-shaped marks and the red mark (fig. 255) around the mast. Rudder-post, red. Mast, traces of yellow. Figures, red skin, black hair-parts and iris, white garments and white of eye. Stools, yellow. Oars, yellow.

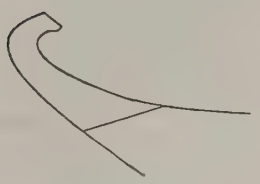
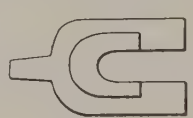


Fig. 257. — Stern.

Technique : Base of hull of separate piece, pegged on. Bow and stern (beyond lines *l* and *m*) pegged on (fig. 257). Rudder-post and mast in holes. The mast seems to have been originally fastened something like the mast of n° 4799 [1], see mark (red) of shoe (which must have been painted red) on deck around mast. Helmsman, lookout and stools fastened each with single peg. Rowers rest on blocks (unfastened) with prolongation of feet in holes in deck. Oars pass through holes in hands of rowers. Each figure is of one piece (arms also). Bow stick pegged on. Covered with plaster and painted.

Preservation : Plaster scaled off in places. Figures worm-eaten.

Bibl. : *Journal d'entrée du Musée*, n° 25842. *Cat.*, 1895, p. 26 near n° 102.



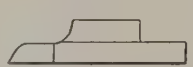


Fig. 258. — Mast-shoe.

4914. Brace for mast from model of ship. — Wood. — Length 0 m. 065 mill.

Fork-like block with part around crotch of fork raised [2]. Outside painted red. Originally fastened to deck by means of peg. See fig. 258.

4915. Model of a ship for the dead. — Wood. — Length 0 m. 465 mill., width 0 m. 102 mill., height middle 0 m. 05 c. — Saqqarah, 1884 (pl. XVII).

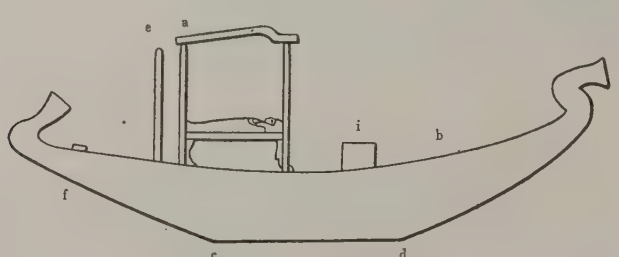


Fig. 259. — Profile.

Hull : Same general style as n°s 4811 and 4847; bow and stern do not rise so high. Tip of bow bends back and then sharply forwards. Deck hollowed out slightly from *a* to *b*. Bottom flat from *c* to *d*. Bow higher than stern. See figs. 259, 260.

[1] See n° 4914.

[2] Has at some time been glued on to n° 4913, but there is no peg hole on n° 4913 corresponding to peg hole on n° 4914.

Rigging : Pair of rudder-posts (e), simple round sticks. Rest for rudders (f).

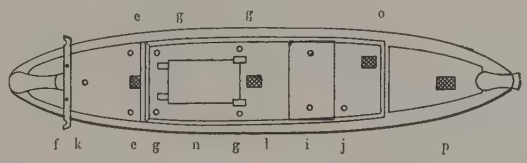


Fig. 260. — Deck plan.

Furniture : Simple canopy supported by four round posts sharpened at top (g). Underneath the canopy a bed (n) with lions' feet and two lions' heads at head. In front of canopy an offering table with a vase (i) on front left corner (fig. 261). Just beyond the table, a vase resting in a ring-stand (j and fig. 262).

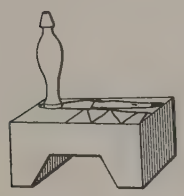


Fig. 261. — Altar.

Fig. 262. — Vase.

Fig. 263. — Steersman.

Fig. 264. — Wailing woman.

Crew : Steersman (k), squatting, arms bent and pressed against sides, hands closed palms in and pierced, short wig and short skirt (fig. 263). At head (l) and at foot (m) of bed, figure of a wailing woman, standing feet together, body bent slightly forward, arms extended, hands open, palms in, long wig falling down the back, short garment supported by two straps one over each shoulder (fig. 264). On the bed, figure of mummy (n) wig falling in two narrow plaits over shoulder and in one broad one down the back; wreath across breast, two red and two blue bands. Priest (o and fig. 265) standing, feet together, facing table, both arms slightly bent at the elbows, right hand open palm in, left hand holds a half opened roll (of writing); no wig, shaved head; short skirt with triangular apron, supported by white strap over left shoulder. Lookout (p), standing with feet together, left arm hanging against side, fist closed, right arm extended, fist closed, hole in top of fist not going clear through. Total crew, six.

Fig. 265. — Priest.

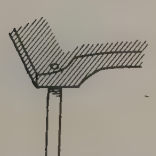


Fig. 266. — Canopy.

Color : Hull, rail, tips of bow and of stern, greenish blue. Deck, white with two red bars at ends of hollow deck. Rudder-rest and rudder-post red. Posts of canopy, blue; roof white with yellow border all around the edges (fig. 266). Bed, yellow; eyes of lions' heads, red. Offering table, white

sides and ends; top, yellow, white, green and black (fig. 267). The vase on the table is greenish blue. The vase before the table is red, with black cover, black ring, and yellow stand. The helmsman and the lookout have red skin, black hair-parts and iris (no beard or eyebrows) white garment and white of eye. Priest, the same, except without wig; shaved head bluish grey; roll white. The two female figures, white wig, garment and white of eye, black eyelids and iris, yellow skin. Mummy, white wrappings, red and blue wreath, blue wig, white white of eye, black eyebrows, eyelashes and iris, color of skin uncertain.

Fig. 267. — Altar top, colors.

Technique : Curving tips of bow and stern, rudder-rest, helmsman, offering table, vases, mummy, fastened on with pegs. Rudder-posts, canopy posts, figures *l*, *m* and *o*, rest in holes in deck. Also the feet of bed. The upper ends of canopy posts are sharpened and rest in holes in roof. The bed legs have tongues fitting holes in body of bed. The arms of figures *l*, *m* and *o* and the right arm of figure *p* are fastened on each with a peg. Covered with plaster and painted. Blue and bluish green consists of a ground granular substance. The plan of top of table was first outlined in red.

Preservation : Colors and plaster much damaged.

Bibl. : *Journal d'entrée du Musée*, n° 25839. *Cat.*, 1895, p. 26, near n° 102.

4916. Model of a ship. — Wood. — Length 0 m. 49 cent., width 0 m. 125 mill., height middle 0 m. 08 cent. — Saqqarah, 1884 (pl. XVII).

Hull : Like n° 4915. Bow higher.

Rigging : Like n° 4915. The helmsman still holds in his hands the handles of the rudders.

Furniture : Canopy, altar (fig. 268) and two vases, similar to n° 4915. Vase before the table, thicker. On the table, also, a leg of sacrificial animal like n° 4917.

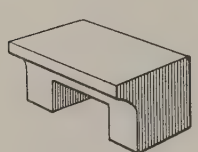


Fig. 268. — Altar.

Fig. 269. — Papyrus roll.

Fig. 270. — Owner.

Crew : Helmsman and lookout like n° 4915. Priest, similar to n° 4915; both arms against sides, bent at elbows, hands open palms up holding a roll open in middle (fig. 269). Under canopy, mummy-like figure (like n° 4915, n) sitting on a throne (fig. 270).

Coloring : Like n° 4915 except for minor differences. The rail is red, like the two bars. The roof of canopy is entirely white. The stand of jar before offering table is white. The shaved head of priest is black. The throne is red. The top of table is slightly different (fig. 271). Vase on table, red. Leg like n° 4917.

Fig. 271. — Altar top, colors.

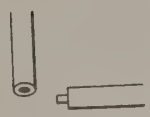


Fig. 272. — Elbow-joint, priest.

Technique : Like n° 4915 except for minor differences. Only forearms of priest separate, fastened on by round tongue and hole (fig. 272). Throne and figure, of one piece, pegged to deck.

Preservation : Plaster and colors damaged. Right rudder-post gone.

Bibl. : *Journal d'entrée du Musée*, n° 25841. *Cat.*, 1895, p. 26, near n° 102.

4917. Model of ship for the dead. — Wood. — Length 0 m. 66 cent., width 0 m. 13 cent., height middle 0 m. 078 mill. — Saqqarah, 1884 (pl. XVIII).

Hull : Similar to n° 4915. Tips of bow (fig. 273, a) and stern (b), different.

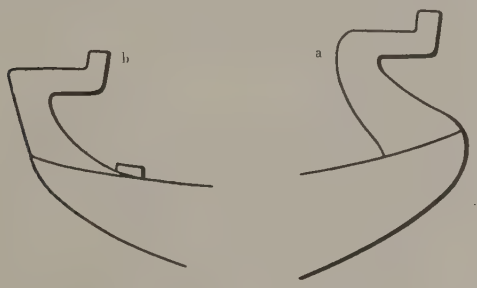


Fig. 273. — Bow (a) and stern (b).

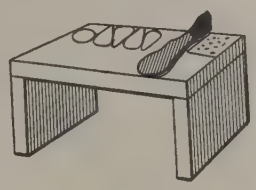


Fig. 274. — Altar.

Rigging : Like n° 4915. One of the handles of the rudders, still in hand of steersman.

Furniture : Canopy and bed similar to n° 4915. Legs of bed are rounded lions' legs. Table for offerings (fig. 274) with leg [1] of sacrificial animal upon it.

Crew : Like n° 4915, except for minor differences. The two female figures have hands open palm down, are not bent at the hips, and have only one strap supporting garment, passing obliquely over right shoulder. The priest is just like n° 4916,

[1] Leg possibly does not belong.

except the roll has writing on the open part. The legs and feet of steersman are covered with garment. Total crew, six.

Coloring : Bottom, yellow. Deck, white with red rail, two red bars like n° 4916, and two additional red bars across stern (fig. 275). Rudder-rest, red. Rudder-posts, yellow. Figures like n° 4915. Roof of canopy, all yellow; posts, blue. Bed, yellow; eyes of lions, red; nostrils, mouth and edge of face, black. Table for offerings, somewhat like n°s 4915, 4916 (fig. 276). The leg of sacrificial animal is red with black hoof.

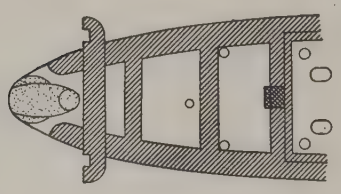


Fig. 275. — Stern, colors.

Fig. 276. — Altar top, colors.

Technique : Hull of three pieces, similar to n° 4913. Tip of bow and of stern, rudder-rest, helmsman and mummy-figure pegged on. All other figures rest in holes in deck, fastened with plaster. Rudder-posts, in holes. Canopy, like n° 4915. Feet of bed in holes, fastened with plaster, otherwise like n° 4915. Table of three pieces (fig. 274) pegged together. Arms of figures, like n° 4916; priest like n° 4915. Table, fastened to deck with plaster. Covered with plaster and painted.

Preservation : Plaster scaled off in places. Figures, worm-eaten.

Bibl. : *Journal d'entrée du Musée*, n° 25840. *Cat.*, 1895, p. 26, near n° 102.

4918. Model of a ship. — Wood. — Length 1 m. 54 cent., width 0 m. 532 mill., height middle 0 m. 238 mill. — Siut, Tomb of [1] (pl. XVIII).

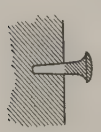


Fig. 277. Peg in rudder-post.

Hull : Similar to n°s 4909-4910. At present, no bow-stick. The red bars on deck are 0 m. 002 mill. to 0 m. 003 mill., lower than the white spaces. On the sides opposite ends of bars n°s 2, 4, 5, 6, 8, 9, 11, 13, 15, 16, 19 (counting from bow) are small projections indicating ends of beam. On each side near bottom, two holes [2].

Rigging : Rudder-post like n° 4798 except not hollowed on top; on the left side looking toward bow a peg as rest for the mast (fig. 277) and a hole through the corner of post behind for fastening the mast with a string.

[1] Cf. Statue n° 235, the two bands of soldiers n°s 257 and 258 (*Cat.*, 1895, n°s 1337, 1338), the two coffins n°s 28118 and 28119 (*Cat.*, 1895, n° 1354).

[2] Apparently for fastening poles for carrying the ship.

Mast-rest standing in mast-hole center of boat (fig. 278, c), shaped about like

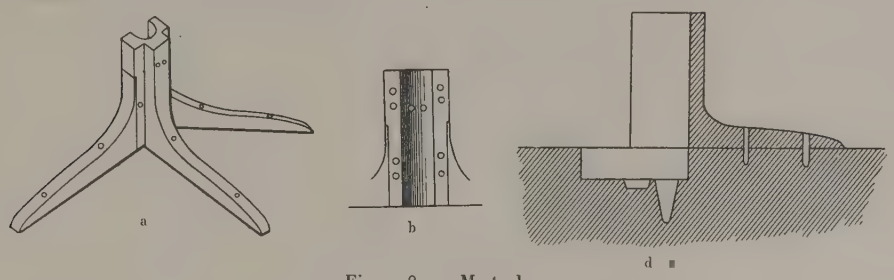


Fig. 278. — Mast-shoe.

rudder-post but with an arm on the side of top (fig. 279). Round tapering mast with five bronze eyelets, two on each side of tip and one on top; bottom of mast square and slightly sharpened, covered with a bronze cap. Originally mast rested on rudder-post and mast-rest.

When in use, the mast was placed upright in the hole *c* and apparently blocked in by some object fitting in the large square hole with a smaller, more shallow one (d) in the middle; on the other side, it was supported by a shoe (fig. 280, e) with three supports. In this shoe are a number of holes (fig. 278) in edges behind (four pair) and through the middle (one pair).

Fig. 279. Mast-rest.

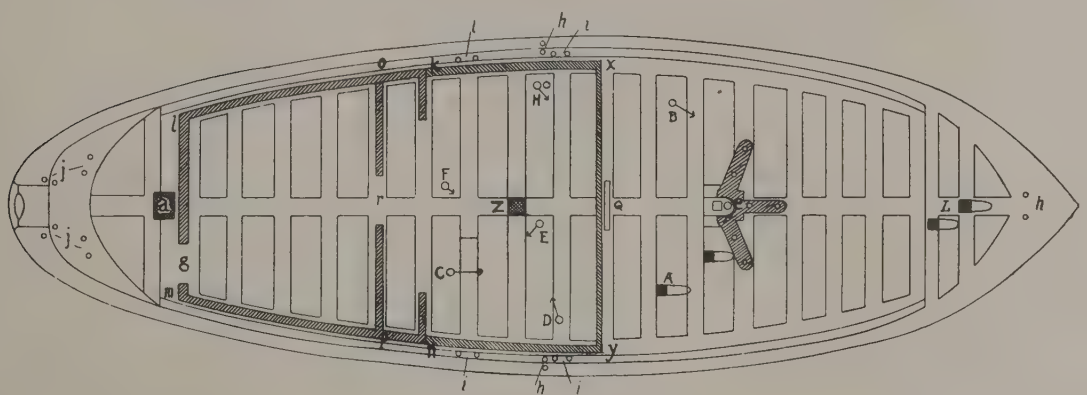


Fig. 280. — Deck plan.

On the third red bar back from mast, a bar with four grooves on underside for fastening ropes of sail (Q and fig. 281).

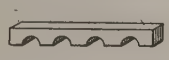


Fig. 281. — Bar-stanchion.

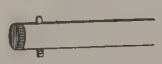


Fig. 282. — End of rudder.

Three holes (h) for rope-stays of mast; four for holding sail ropes (? or fastening oars?) (i); four for fastening rudder (j). Round pointed *rudder* with hole near end of handle (fig. 282). The end may have been covered with metal cap.

Furniture : Originally a *cabin* with a vestibule (k-l-m-n). The *walls* o-p and l-m are boarded up, each with one door (g, r); the sides and top are of frame work over

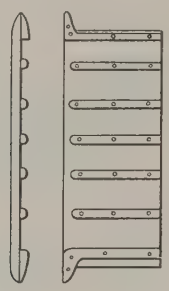
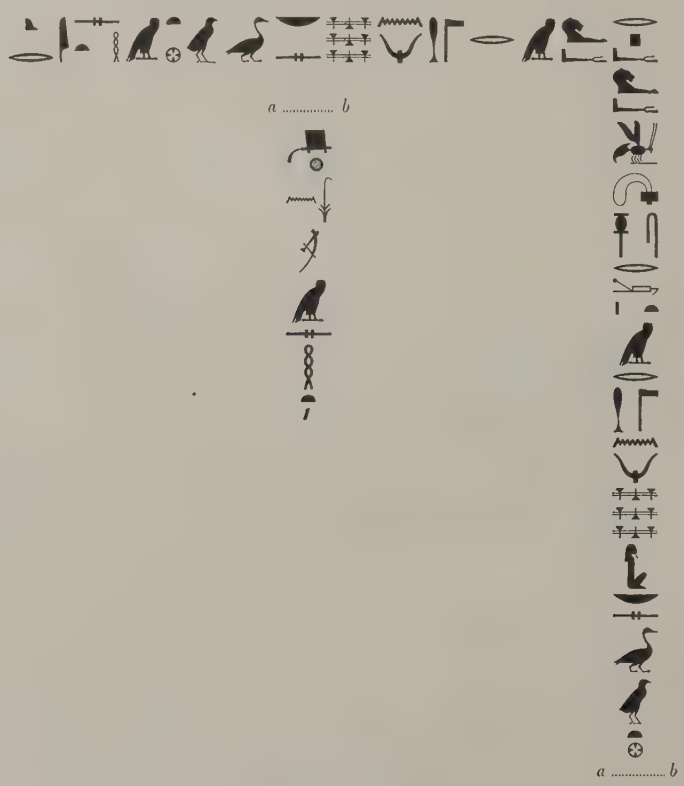
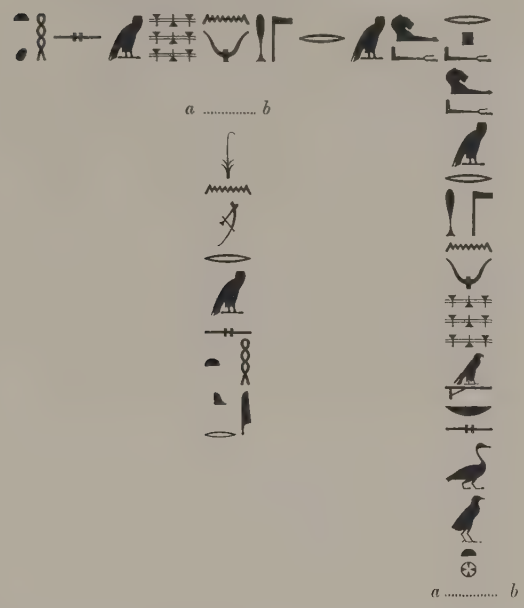


Fig. 283. — Door.

Fig. 284. — Relief on door.

which apparently a cover was originally stretched. The corners of walls l-m and o-p have holes for fastening cover. The *doors* have projecting pivot above and below and horizontal bars on the inside (fig. 283). On the outside in incised relief is a standing figure (fig. 284) and two lines (one vertical, one horizontal) of inscription.





Below, the pivot of door rests in hole in deck. Above, the pivot is held by a *socket* (fig. 285 and 295). The doors have *latches* (fig. 286 and 295) on the side of the door-way, inside. The *vestibule* is formed by continuing the side walls and roof o m. 06 cent., beyond the front wall of cabin and supporting with beams which rest on deck in form of elbow (fig. 287).

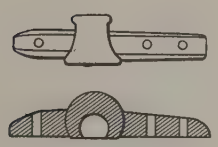


Fig. 285. — Upper door-socket.

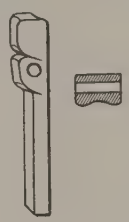


Fig. 286. — Door latch.

Fig. 287. — Elbow beam of *k-n*, vestibule.

Reconstruction : An *additional room* was built on to the vestibule (k-n-y-x). Roof supported in the center by a lotus bundle *column* with closed capital (z)[1]. The front wall is like the side walls, all with double vertical beam opposite column, and without doors.

Crew : *Helmsman,* squatting figure, right arm extended slightly crooked, fist closed palm in and pierced, left arm straight with hand open palm on floor; short wig covering ears, no cosmetic stripes; short skirt from waist to knees[2]. Sat on cabin or on platform on cabin. *Lookout* (L), standing left foot advanced, right arm outstretched,

[1] The column has on underside a peg hole with fragment of peg, for which there is no hole in deck. The column must originally have belonged to another object.

[2] On pl. XVIII, this figure is inside the cabin.

hand closed and pointing with the index finger, left arm hanging closed, palm in; short black wig covering ears; short skirt with lappet in front (fig. 288). *Standing figure* (*A*) left foot advanced, hands open crossed on breast, right over left, palms towards breast; no wig; long skirt from waist to ankle, with triangular apron in front. *Squatting figure* (*B*) similar to n° 4899, but with right knee drawn up; short black wig covering ears, short skirt. *Squatting figure* (*C*), main figure; arms, hands and feet covered by garment which reaches the neck; collar (fig. 289). *Squatting figures* (*D, E, H*) similar to figure B, except the right arm is straight with the palm open flat on the deck; figure E has no wig. *Squatting figure F,* like B but without wig. Total crew, nine.

Fig. 288.
Lookout.

Coloring : Bottom red. Deck white with red rail and red bars (fig. 290). Rudder-post, mast shoe, red. Rudder, yellow with black mark (fig. 291). Mast and mast-rest, unpainted. End walls of original cabin, beams red, boards yellow (traces), Front frame of vestibule also red. Rest of cabin, unpainted. Figures L, B, D, E, F, H and helmsman, dark red skin, black

Fig. 289.
Collar of owner.

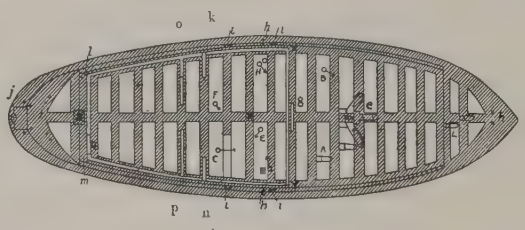


Fig. 290. — Color plan.

Fig. 291.
Rudder.

hair parts (no cosmetic stripes) and iris, white garments and white of eye. Figures A and C, the same but with light red skin.

Technique : *Hull* has a number of irregular pieces set in and fastened with pegs. Several cracks have been filled with wood. The whole smoothed over with plaster and painted. *Rudder-post* rests in square hole. *Mast* rests in hole, stayed with block (?) and shoe. *Shoe* of mast, pegged to deck, two pegs in each support. The supports on the sides are fastened to main body of shoe with tongue and slot (fig. 292). The roof of the original cabin (divided lengthwise) is composed of two halves. Each half has two beams lengthwise connected by five curving cross-beams (thin) which are fitted into the longitudinal beams by means of tongue and slot : the cross-beams are then fastened together by two thin strips laid over lengthwise and fastened by a peg where each crosses a cross-beam. The first and fifth cross-beams adjoin the end walls. The adjoining longitudinal beams of the two halves are joined by tongues and sockets. Each side wall is composed of two longitudinal and five vertical beams;

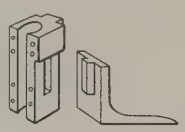


Fig. 292.
Side of mast-shoe.

and the frame work is stayed at the four corners by elbows (fig. 293). The vertical beams are joined to lengthwise beams by tongue and socket (fig. 294). The upper lengthwise beam is grooved on inner edge to admit the edge of outside beam of roof (fig. 294). The *end wall l-m* consists of outside framework of three pieces, — an arched top-piece joined to two side-pieces with tongue and slot, — and a door frame of three pieces (fig. 295). The two side pieces are elbow-shaped and joined in the middle of the bottom with an overlapping joint. Joint d'' is overlapping (fig. 296); the others are tongue and slot joints. The intervening spaces are filled in with boards (1, 2, 3), half as

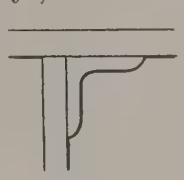


Fig. 293.
Elbow stay.

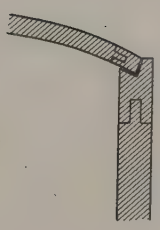


Fig. 294.
Joints in canopy beams, section.

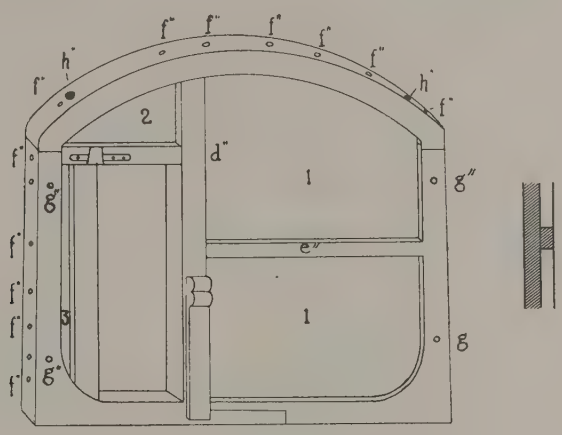


Fig. 295. — End wall *l-m*.

thick as the beams and level with outside. The smaller beam e'' crosses board *1* inside and is fastened to frame-work with tongue and slot joints. The outer corner of frame-work is pierced with five holes on each side and six on arch (f''); the inner corner by two on each side (g''). Two thick pegs fastening boards (h''). The *front wall o-p* is

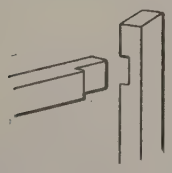


Fig. 296. — Joint d''.

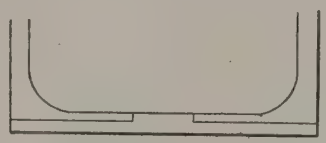


Fig. 297. — Elbow beams, wall *o-p*.

of similar construction : the door is in the middle so that the boards *1*, *2*, *3* have different forms from those in back wall; board *3* is crossed by smaller beam like board 1 : there are four thick pegs in upper arch fastening in the boards : the under arms of the elbow pieces are joined by a fourth piece (fig. 297). This end wall sets inside the side walls. Five holes on each side through the outer corner of side wall.

Two holes through side pieces of frame-work of end wall *o-p* near top, one on each side; and two large holes through arched piece, in the middle. The *vestibule* is formed by piecing out the lengthwise strips of roof to a frame of three pieces, similar to frame of wall *o-p* but with smaller beams and without the middle piece below (see figure 287). The *forward cabin* (k-n-y-x) is built on to vestibule and consists of two side walls and a roof, similar to the after cabin, and an end wall. The side walls have however two adjoining vertical beams in the middle braced with elbows above and below (fig. 298). The roof has also a double middle cross-beam; and the three cross-beams and both double beams are pieced with overlapping joints pegged together (fig. 299). The end wall (x-y) consists of two equal halves set together

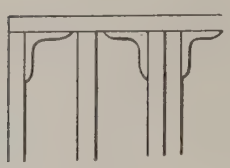


Fig. 298.
Cabin *k-n-x-y*, side frame.

Fig. 299.
Overlapping joint, cross-beam of roof.

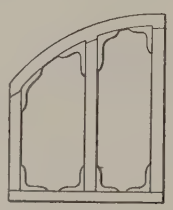


Fig. 300.
Wall *x-y*, one half.

with flat pegs. Each half consists of one curving top-piece (with projections on underside corresponding to slots in top ends of three vertical beams), of three vertical beams and a bottom piece (fig. 300). The vertical beams are joined to the other two by tongue and slot joints and each corner is stayed with an elbow. The top piece is grooved on inner edge to receive end of cross beam of roof. The column in the center is fastened above by a peg *between* the lengthwise beams; below it rests on floor. The two cabins are pegged to floor, holes in deck larger than pegs. *Figures* A and B have prolongations of heels resting in holes in deck; feet joined on with pegs. All other figures are pegged on. All figures (except C) have arms pegged on. Figures covered with plaster and painted.

Preservation : Cracked. Plaster scaled off in many places.

Bibl. : *Journal d'entrée du Musée*, n° 30970. *Cat.*, 1895, n° 1339.

4919. Model of a boat. — Yellow limestone[1]. — Length 0 m. 115 mill. — Assuan.

Ends bending back. Rests on flat plate (oval). Cabin in center. Painted yellow with black and red lines. Black lines along edges; the three hatched spaces marked *b*

[1] Cf. n°s 4922, 4923, 4974, 4975.

have black and red lines crossing each other; the fourth hatched space has red lines only (fig. 301).

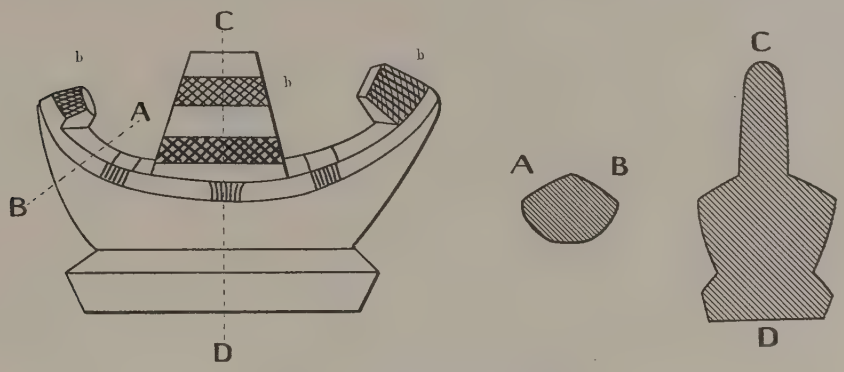


Fig. 301. — Profile and two sections.

All other heavy lines are black. Deck shows traces of light green. Ends of cabin (?) red.

Bibl. : *Journal d'entrée du Musée*, n° 30369.

4920. Model of a cabin. — Wood. — Length 0 m. 12 cent. (pl. XXXI).

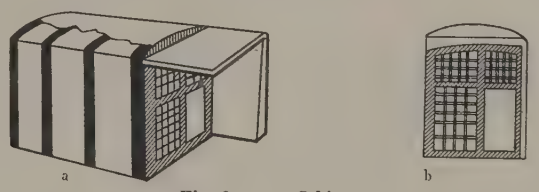


Fig. 302. — Cabin.

Rectangular. Curving roof. Vestibule formed by extension above and on the right side. The underside of roof of vestibule is arched. Painted yellow with four black bands around the sides (fig. 302, a). Front painted with red lines in imitation of frame-work (fig. 302, b). Covered with plaster, except on bottom, before painting. Plaster scaled off of roof.

4921. Model of cabin. — Wood. — Length 0 m. 149 mill. (pl. XXXI).

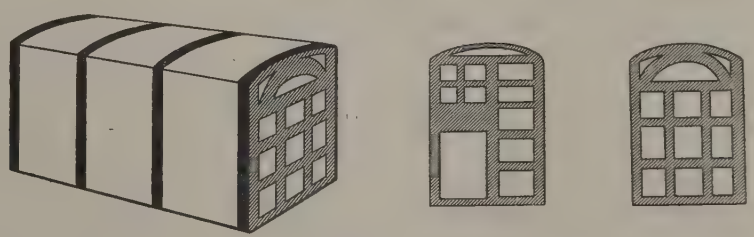


Fig. 303. — Cabin.

Rectangular. Curving roof. No vestibule. Covered with plaster and painted yellow with black and red band. See fig. 303.

Catal. du Musée, n° 4798.

4922. Model of a boat. — Fine grained yellow limestone[1]. — Length o m. 11 cent. — Haute-Égypte (pl. XIX).

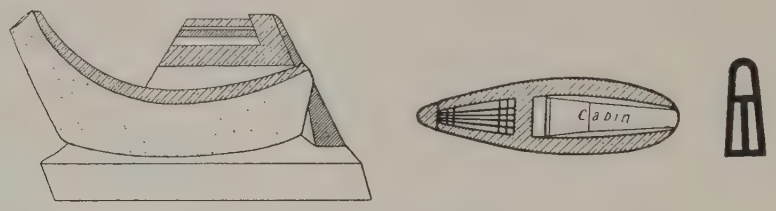


Fig. 304. — Profile and color plan.

Bow, elevated. Stern, short. Cabin in stern. Rudder. Rests on platform similar to n° 4919. Heavy lines are black; rudder, red; hull, yellow; one band, red; rest, green.

End of rudder above, broken off. See fig. 304.

Bibl. : *Journal d'entrée du Musée*, n° 29517.

4923. Model of a boat with hippopotamus. — White limestone[2]. — Length o m. 095 mill. — Magazine (pl. XIX).

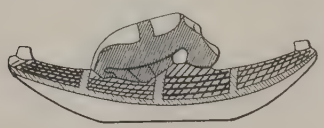


Fig. 305. — Profile.

Bow and stern, alike, each with a knob. Bottom flattened. Painted red, blue and black. Blue almost entirely rubbed off. See fig. 305.

Bibl. : *Journal d'entrée du Musée*, n° 30683.

4924. Model of a boat with statue of a god. — Pink granit. — Length 3 m. 58 cent., width about o m. 60 cent. — Mitrahineh, July, 1892 (pl. XIX).

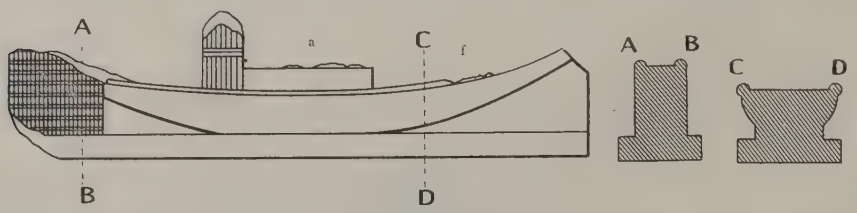


Fig. 306. — Profile and two sections.

Hull : In general, similar to n° 4860 (fig. 306). Rail rounded like n° 4860. Stern piece broken off. Bow covered with bead work. Tip of bow broken off. Resting on a thick rectangular plate to which bow and stern are joined by vertical walls. In the bow, the rail is much higher (like the solar ships from Bersheh).

[1] See n° 4919.
[2] See n° 4923.

Bead-work on bow : Sides covered with bead-work (fig. 307, a). In front, bead work on each side and in the middle raised ridge like a staff (fig. 307, b). Raised part shattered. On each side of bow, just behind bead work, one eye in low relief (fig. 308).

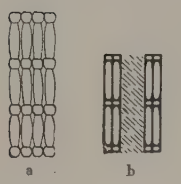


Fig. 307. — Relief.

Fig. 308. — Relief.

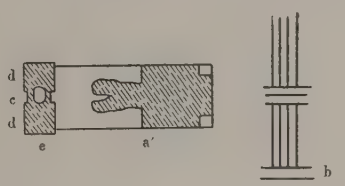


Fig. 309.

Furniture : In the middle is a low base (fig. 309, a) on which stood a seat with the statue of a divinity. Before this base and adjoining it, an upright object composed of two halves covered with mat work (b) and separated by a channel (c). Two pairs of hawks, on front of this object (one pair on each side) (d) facing upward; in each pair, one hawk is directly in front of the other. The top of this object is broken off; the spot *e* was however lower than the adjoining sides as if the channel *c* continued over the top. In the stern (fig. 310), traces of a block and staff, possibly sign.

Fig. 310. Section, object *f*.

Coloring : None.

Technique : One piece of stone. Smoothed and polished.

Preservation : Broken in three large pieces (break just before and just behind base of statue). Object with hawks broken off and stuck on. Several pieces on left of base, broken off and stuck on.

Bibl. : *Journal d'entrée du Musée*, n° 30165.

4925. Ship for the dead. — Wood. — Length 10 m. 20 cent., width 2 m. 24 cent., height middle 0 m. 845 mill. — Dahchour, 1893. Near the northern pyramid.

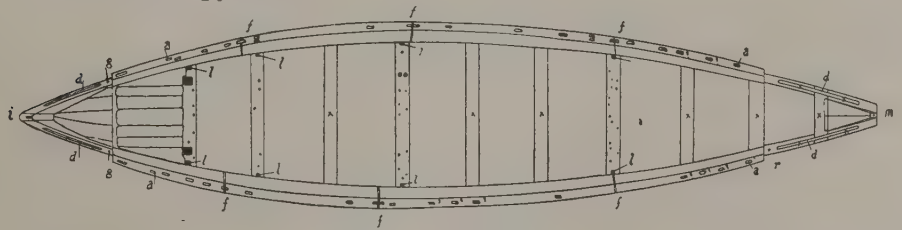


Fig. 311. — Deck plan.

Hull : General form in De Morgan, *Dahchour*, I, p. 83, fig. 203. There is no indication that the stern is like that in De Morgan's figure. On the contrary, it is rounded off like n° 4811 and similar boats; and the fact that the round piece (d) is cut off sharp indicates that the *stern* had originally an upright bent post like n° 4811 and similar boats (fig. 311). In that case, the *bow*, which is destroyed must also have

had such a post, see n° 4811, etc. The *rail* is raised from 0 m. 17 cent., to 0 m. 20 cent., above the deck and is cut off square before reaching tip of bow and of stern, similar to n° 4807. The deck enclosed by the rail is closed at ends by *two cross pieces* (now gone) one of which, that in stern, extended beyond the sides of boat and served as *rest for the rudders*. Beyond the cross pieces, instead of raised rail, *semicylindrical staves* are laid lengthwise along top of sides of boat, one on each side (fig. 317). *The deck* covered the whole boat from stern to bow though much of it is now lost.

Rigging : *Two rudder-posts* [1] square at bottom, round above, each surmounted by a hawk's head, originally joined together by a cross piece at top of posts. *Two rudders*, with round-tipped blade, long round stem and slanting hole for handle [2]. At bow and at stern, a hole on each side (fig. 311, a) through outer edge of rail.

Coloring : Bottom, yellow with a blue, a red and a blue stripe along rail. The stripes are outlined with black and separated by narrow yellow spaces (fig. 312). The boards of deck, apparently white. The cross pieces being covered by boards were probably unpainted. The posts for rudder, — the left one, red; the right one, yellow [3]. Hawk, yellow skin, blue wig, green eyemarks. Rudders, like De Morgan, *Dahchour*, vol. I, pl. XXXI.

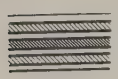


Fig. 312. Stripes along rail.

Technique : The *hull* consists of a middle beam set together out of three pieces and a

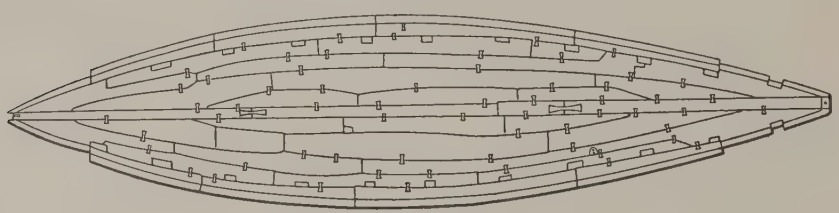


Fig. 313. — Plan of hull.

number of irregular boards running lengthwise and joined to the middle beam on the sides (fig. 313); the *middle beam* is held together by two swallow tail joints joining ends of pieces of middle beam; the *boards on sides* are held to middle beam and to each other by swallow tail joints joining sides boards to each other (see fig. 311) and by tongue and slot joints also joining sides (fig. 314). The exact number and arrangement of these slot joints, it is impossible to ascertain without taking the boat apart. *Each rail* consists of four pieces fastened

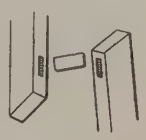


Fig. 314. Slot-joint, in side.

[1] The left rudder-post does not seem to belong to this boat; does not fit the hole in cross beam, see note 5; the post shows traces of red the whole length.

[2] According to De Morgan, *Dahchour*, I, pl. XXX, one of the handles seems to have been in position when found.

[3] See note 1.

to the hull with swallow tail and slot joints as the side boards are fastened to middle beam and to each other. The holes in top of rail (except *a* in fig. 311) are mostly holes of slot joints. The pieces forming rail are also joined to each other at the ends by slot joints (fig. 315) and by being bound with (leather or) metal (fig. 316).

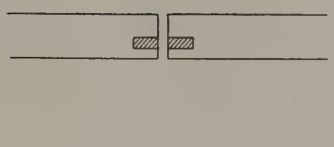


Fig. 315. — Slot-joint, in end.

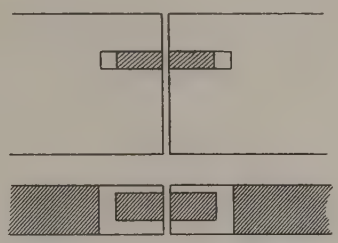


Fig. 316. — Holes for metal bond.

The *half staves d* are fastened on with round pegs (fig. 317). At the ends the side boards are fastened to middle beam with broad pegs, similar to fig. 314 but slanting (fig. 317, h). The *stern piece* which originally rested at *j* (fig. 317) was fastened on

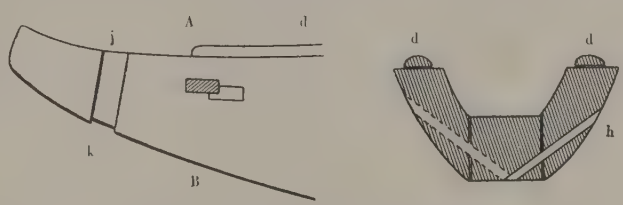


Fig. 317. — Profile and section of bow.

by a flat peg (fig. 311, *i*) and by a metal (?) band bound around the groove *k* (fig. 317). The piece on bow was fastened differently as shown by a hole (m) in middle beam and a horizontal hole in board on the right. The *cross beams* rest with their ends passing through sides of boat, through a rectangular hole in top of first board under rail, and have at each end a square hole (0 m. 02 cent. × 0 m. 03 cent.) passing down vertically through cross beam (fig. 318, l)[1]. The *boards of deck* were fastened to the cross beams by small round pegs (fig. 311, dots on cross beams; the beams marked with × are modern restorations); and they were fastened to each other by flat pegs joining the sides (like fig. 314). The ends of the *rudder-posts* pass through square holes[2] in cross beam and rest in holes in

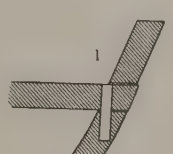


Fig. 318. Cross-beam, section at end.

[1] The hole *l* in the beam in which the rudder-post rest, on left side, does not pass through, see fig. 319; these holes *l* therefore did not serve to fasten cross beam to board below. Possibly for canopy posts.

[2] The hole through cross beam on left side has been enlarged in the restoration.

bottom (fig. 319, n). The rudder-posts were joined by cross-piece above, joined to right post (fig. 320) in different manner from that in which it was joined to left post (fig. 321)[1]. Impossible to see how head was joined to post (now nailed on).

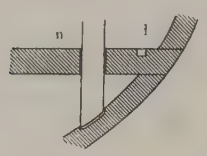


Fig. 319.
Rudder-post, section at base.

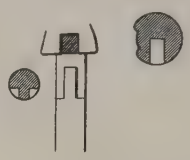


Fig. 320.
Right rudder-post.

Fig. 321.
Left rudder-post.

The *rudders* consist of long stem, running the whole length, which is flattened where it enters the blade; the sides of the blade are each of a separate piece (in one case two pieces) set on to stem with pegs (like fig. 314), three on each side. There are also a number of round holes (1 centimetre in diameter) through the blade, which seem to be from old construction. The stem has above a tongue (0 m. 02 c. □) which fits into hole in underside of hawk's head.

The boat is made for the most part of wood which had been used once before and a number of holes used in the former construction have been filled with wood or plaster. The underside of boards used for deck was only roughly hewn and only the upper side was covered with plaster. The rail and the bottom of the boat also, still show traces of plaster. The cross-pieces closing the rail were fastened, the one in the stern by means of the square holes *q*, the one in bow by means of round holes (*r*).

Preservation : Most of deck, parts marked with × in figure 311, most of plaster and paint are gone. Parts marked with × are modern; and M. Barsanti informs me that most of the dove-tails are also modern.

Bibl. : *Cat.*, 1895, n° 1353. De Morgan, *Dahchour*, I, p. 81-83, pl. XXIX-XXXI.

4926. Ship. — Wood. — Length 9 m. 90 cent., width 2 m. 28 cent., height middle 0 m. 74 cent. — Dahchour, 1893. Near the northern pyramid.

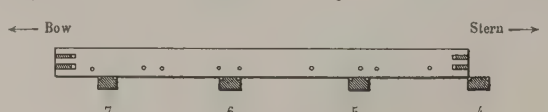


Fig. 322. — Rail.

Hull : General form, rail, deck, rudder-rest, semicylindrical staves beyond the rail, like n° 4925. Indeterminable whether bow and stern had bent posts like n° 4925 or not.

Rigging : Rudder-posts and rudders, like n° 4925. The middle piece of rail has nine holes stopped with wooden pegs (fig. 322).

[1] Left post does not belong, see note 1.

Coloring : Rail, red. Cross beams and ends of boards adjoining them, traces of red. Boards except ends, show traces of white. Bottom, forward, traces yellow. Rudder-posts, yellow with a green, a red and a green band around top. Heads of rudder-posts and rudders, like n° 4925.

Technique : Construction of hull similar to n° 4925 (even to shape of boards in bow and stern); swallow-tail joints sparingly used. Rail of four pieces fastened with peg in top and with metal band like n° 4925 (fig. 323, the numbers show course of band). Semicylindrical staves at bow and stern, fastened to sides; cross-beams fastened in frame of boat; and rudder-posts in holes, like n° 4925. The two rudder-posts were connected by a cross-beam, from mark on post apparently about o m. 04 cent. × o m. 04 cent.; the end of cross piece held a tongue which fitted into a hole o m. 015 mill. × o m. 015 mill. and o m. 15 cent. from top of post; the heads are held on like heads of rudders of n° 4925. *Rudders*, like n° 4925. The *deck* is built differently from n° 4925; the cross-beams have the upper edges grooved; the ends of the boards rest in these grooves (fig. 324); in tip of bow and of stern alone, they are fastened by wooden pegs driven in slanting [1]. The last cross-beam in bow has a peg in each end driven slanting back into the end of top board on side of ship. Rudder-rest fastened with broad flat peg (?). Old wood used; underside of deck unfinished; upper side of deck, rail and bottom covered with plaster; similar to n° 4925. The deck boards next to rail have the edge outside slanting to fit slope of side.

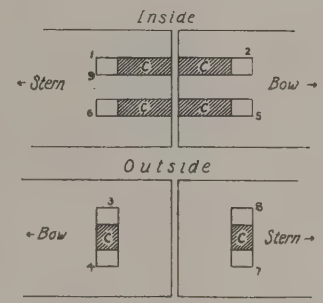


Fig. 323. — Rail, tie holes, numbers show course of band.

Fig. 324. Middle beam, section.

Preservation : Round staves, rudder-rest, tip of bow and of stern, gone. Rudders badly broken. Rail more or less rotted.

Bibl. : *Cat.*, 1895, n° 1353. De Morgan, *Dahchour*, I, p. 81-83, pl. XXIX-XXX.

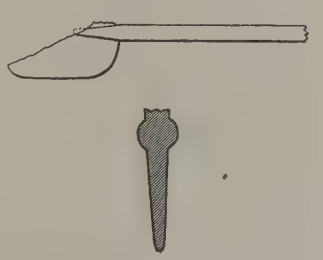


Fig. 325. — Oar.

4927. Piece of a rudder or oar. — Wood. — Length o m. 89 cent.

Round stem, prolonged along the middle of blade on both sides. Flat round-cornered blade. No trace of coloring. Blade somewhat rotted (fig. 325).

[1] Thus it was possible at any time to remove boards of deck except at bow and stern and yet the boards gave a firm deck.

4928. Drag for transporting a ship (?). — Wood. — Length 4 m. 21 cent., width 0 m. 78 cent.-0 m. 80 cent. — Dahchour, 1893. Near nos 4925-6.

Frame : Two lengthwise pieces, curved upwards slightly at forward end, and four cross-pieces [1]. The lengthwise pieces contain a number of slots and holes, for holding pieces laid across from side to side (fig. 326, a), and for holding upright pieces, posts, etc. (b), arranged symmetrically in pairs. Three pairs of holes for tieing pass through outer edge (c). See also inner upper edge (d). The inside of lengthwise pieces contains seven pairs of holes passing in and out on same surface (e). In the cross pieces there are holes for tieing passing through upper back edge (f), upper front edge (g, in n° 2 and 4), lower back edge (h, in n° 3), lower front edge (i, in n° 3), in front face (k, in n° 3).

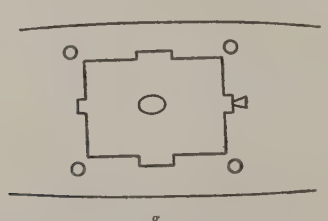
Coloring : No traces.

Technique : The cross beams (1, 2 and 4) have at each end a tongue which fits into a slot in lengthwise beam (l). The tongue [2] was fastened by two pegs (?) through the holes *m* (these holes pass through the tongue but not into beam below). A slot (n) passes down into the lengthwise beams just at end of tongue of beams 1 and 4. At end of tongue opposite 2, a hole passes in and out on same surface (o). Beam n° 3 has tongue at left end resting in slot in lengthwise beam (p) and the right end is dove-tailed into beam, the dove-tail being pegged fast (q). A number of pieces of wood have been patched in, being fastened with pegs (r, three on forward part). On inside of beam on right between beam 1 and back end, there is a narrow slot which was filled with piece of wood held by pegs. Some of the cracks are filled with plaster.

Preservation : Surface and edges more or less eaten or rotted away so that strictly exact measurements are difficult to make. Cross-beam n° 3 is very badly damaged on the left half.

Bibl. : De Morgan, *Dahchour*, I, p. 81-83.

4929. Model of a ship. — Wood. — Length 0 m. 575 mill., height middle 0 m. 05 cent., width 0 m. 095 mill. — Sépulture des prêtres d'Amon, 1891 (pl. XIX).



g

Fig. 327. — Marks on deck under cabin.

Hull : Slender, almost triangular in cross section, with bow and stern curving upwards and inwards, round in cross section and ending in broad circular button (open flower). Bottom is not flattened. Under the cabin is a hole (fig. 327, g) with traces of resinous matter.

[1] Beams nos 1, 2 and 4 should perhaps be turned over bringing top surface on a level with top of side beams, cf. n° 3.

[2] See note 1.

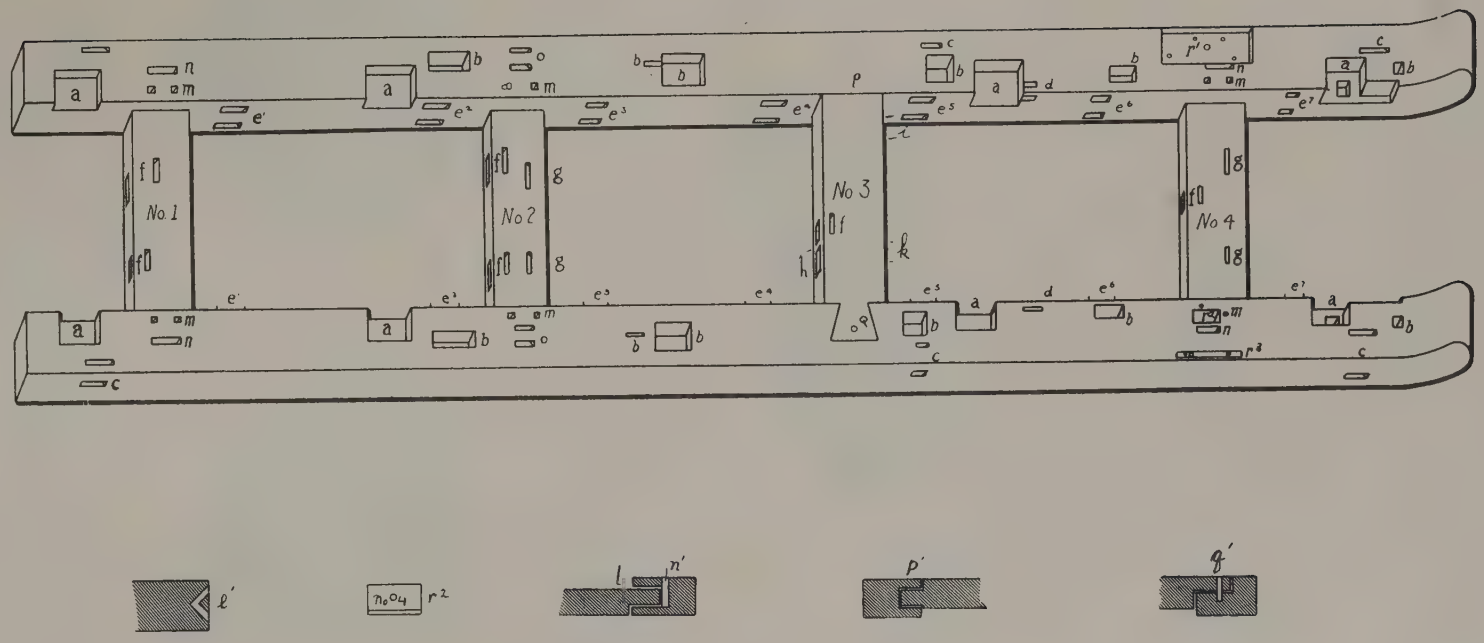


Fig. 326. — Sledge.

Rigging : Two rudder-posts at *a*, fig. 328 (now broken off). Rudder-rest (b) consisting of cross-piece extending beyond the sides and notched near each end in upper back edge. Two rudders (now one) rough with narrow blade, no handle.

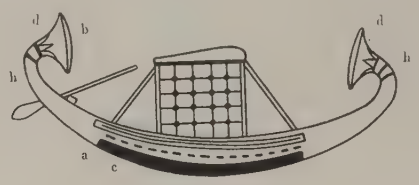


Fig. 328. — Profile.

Furniture : Rectangular box-cabin with slanting roof; supported in front and back by two leaning posts, one against each end.

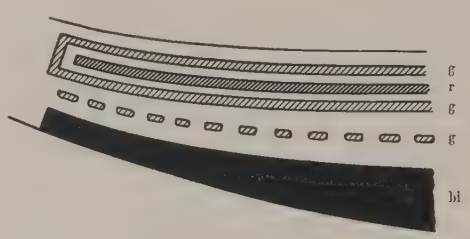


Fig. 329. — Colors.

Coloring : Ground color is brownish yellow. Side of bottom has green and red stripes, green spots, and black along keel (fig. 329). On each side of bow, eye in green (omitted by copyist fig. 328, see pl. XIX). Around stem of button on bow and

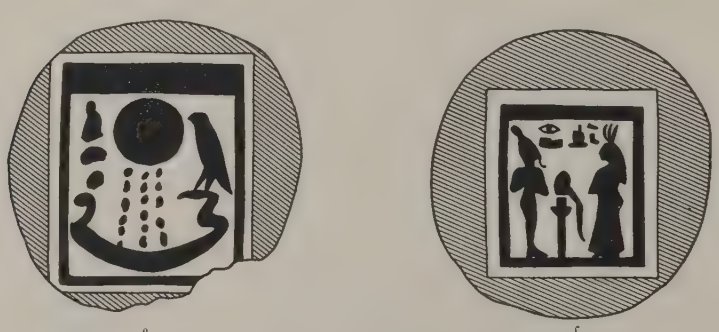


Fig. 330. — Ends of buttons.

stern, two green bands, a red one and four red sepals (d). Back of rim of flower or button a green rim. Bow, front of flower bears picture of a solar ship (e); stern, front of flower, Osiris and Isis (f) (fig. 330).

The rudder has black tip, and four red and three green stripes across outside of handle. The supporting posts of cabin are red. Cabin, yellow with vertical edges green, sides crossed by vertical and horizontal red lines with green dots at points where the lines cross.

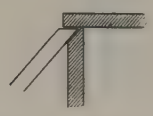


Fig. 331. — Cabin stay.

Fig. 332. — Plan of cabin.

Technique : Hull of one piece with flower-tipped stern and bow set on (h). Rudder-rest rests in notch and is held by pinkish grey plaster. Rudder-posts rested in holes. Rudders tied to rudder-rest and to rudder-post and stuck on with pinkish grey plaster. Lower ends of cabin-supports rest in holes in deck; upper ends in holes in walls of cabin (fig. 331). Cabin composed of five pieces, held together by pinkish grey plaster; the two sides overlap the two ends and are bulging inside (fig. 332); the roof overlaps all four walls. Cabin fastened to deck with plaster. The hull covered with layer of white plaster and then the whole covered with layer of pinkish grey plaster and painted.

Preservation : Rudder-posts and one rudder gone.

Bibl. : *Journal d'entrée du Musée*, n° 29265.

4930. Model of a boat with naos and statues of gods. — White limestone. — Length 1 m. 28 cent., height middle 0 m. 35 cent., width 0 m. 38 cent. — Mitrahineh, July, 1892 (pls. XX and XXI).

Fig. 333. — Profile.

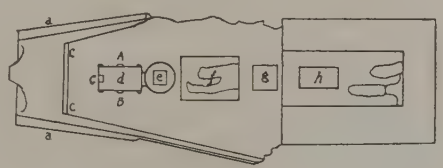


Fig. 334. — Deck-plan.

Hull : Similar to n° 4924 (figs. 333, 334). Rests on a rectangular block. Rail square

with semicylindrical strip along the outside (fig. 335). Bow covered with bead work, similar to n° 4924, interrupted on the sides by the semicylindrical strip (fig. 333, a). The front is plain except for a single line of bead-work down the middle (fig. 336)

Fig. 335.

Fig. 336. — Front of bow.

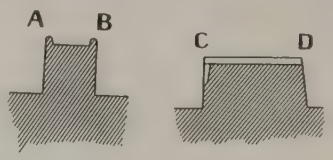


Fig. 337. — Sections of object *d*.

in relief. The back surface of the bow post is bent in peculiar manner (fig. 333, c). The rail at the bow as far back as end of bead work is raised similar to n° 4924. Stern is broken off (fig. 337).

Furniture : In the bow, a box-like object, of one piece with the deck (d). Back of that and joined to it, a cylindrical object with a square hole (e). Then, with a short interval, a shallow (0 m. 025 mill.) rectangular hole (f) containing a plate with the feet of a standing statue, left foot advanced. At another short interval, a square hole (g) and then a chapel or naos. In floor of naos, a rectangular hole (h); and on the back wall, and not free from it, a statue of Chnum, human form, left foot forward, arms hanging, left hand closed holding ☥-sign, head of ram, facing forwards; with sun's disc, human ears; wig falling in long plaits over shoulders and marked with parallel incised lines; short skirt (fig. 338). The naos is open only in front; and the front above is decorated with a serpent in relief arranged in long folds up and down each side, across bottom and top (fig. 339, the direction and position of folds marked with simple line).

Fig. 338. — Skirt of statue.

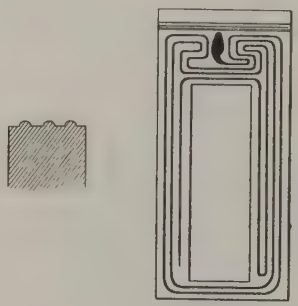


Fig. 339. — Front of chapel.

Technique : Cut out of one piece except the objects or statues which rested in *e*, *f*, *g*, *h*.

Preservation : Consists of eight fragments which fit together. There are a number of other pieces of different sizes some of which belong to this boat and some do not. A considerable part (stern, right side and upper part of bow) is wanting.

Bibl. : *Journal d'entrée du Musée*, n° 30166.

4931. Model of a ship. — Wood. — Length o m. 26 cent., width o m. 045 mill.

Hull : Similar to n° 4808. Ends broken off. Two flat cross-pieces on each end (one of them broken off) (a). Bottom flat from end to end. See fig. 340.

Fig. 340. — Deck-plan.

Rigging : One hole for mast (?) (b).

Coloring : Traces of yellow (?).

Technique : One piece, except that cross pieces are glued on. The ends which are now broken off were originally separate pieces.

Preservation : Rail on one side broken off.

4932. Roof of a canopy from the model of a ship. — Wood. — Length o m. 17 cent., width o m. 10 cent. (pl. XXXI).

Fig. 341.

Like the roof of a naos. With hole in each corner for receiving the posts. Upper surface white with yellow rim. Edge also yellow. Under surface greenish blue. Front of underside (a) painted with alternate red, blue and green stripes, beginning with a blue one on each side which runs into blue of underside. Covered with plaster before painting. See fig. 341.

4933. Model of cabin. — Wood. — Length o m. 175 mill., height o m. 12 cent. (pl. XXXI).

Fig. 342.

Similar to n° 4921 in form and coloring. Pattern of frame-work on front and on back alike except that the door on front (?) is on the right hand side and that on back is on left hand side, that is, the doors are directly upposite each other. Painted directly on the wood. See fig. 342.

4934. Model of cabin. — Wood. — Length o m. 115 mill., height o m. 08 cent.

Like n° 4933. Pattern of frame-work roughly done. Hole and peg on underside for fastening to ship (?). Covered with layer of white plaster before painting. Plaster much damaged.

4935. Canopy post from the model of a ship. — Wood. — Height o m. 40 cent.

Fig. 343.

Painted with alternate greenish blue and yellow bands separated by narrow black rings. Lower end black. Lower end slightly flattened on one side. Upper end, prolonged into peg to fit hole in roof of canopy (fig. 343).

4936. Half of a spar with remnant of sail still fastened to it. — Wood and linen. — Length o m. 21 cent.

Straight spar tapering towards the end, painted yellow with four black rings, one at the tip (fig. 344).

Sail : The edge next to the spar is bound with over and over stitch like sail on n° 4841 (a). A two-strand rope passes along this edge and is tied to it around the bound edge at regular intervals (ca. o m. 04 cent.) (b); this rope passes around tip of spar, is tied again through hole in sail (c) (and may have passed up along outside edge of sail?). A short distance up the outside edge a string is noosed through hole in sail. Another string binds the two-strand rope to the mast, passing over and over like on n° 4841. At the end, it is wound around the two pieces of the two-strand rope at *d* and around the rope and the tip (left out in figure for sake of clearness).

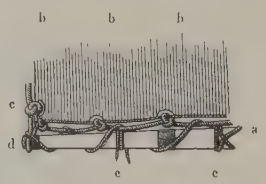


Fig. 344.

Sail-ropes : At three points (e), a rope is passed around the spar possibly for hoisting sail (cf. n° 4841).

4937. Mast with sail ropes from model of a ship. — Wood. — Length o m. 46 cent. (pl. XXIX).

Tapering; lower end roughly sharpened; upper end broken off. Near the base wound with *six* strings tied together somewhat similar to the hoisting ropes on n° 4841.

4938. Part of a rudder from a model of a ship of the dead. — Length o m. 32 cent., width o m. 057 mill. (pl. XXVII).

The blade was formed by fastening two side-pieces, each by means of three pegs, to the prolongation of the stem. The present number is one of these side-pieces. One

side is flat; the other oblique. It is beautifully painted; similar to rudder of n° 4925, but the rosette is different. See fig. 345.

a. Yellow with red lines; the interior petal is white with red shading at top and black outline; the background is white. *Nymphaea lotus.*

b, c. The background surrounding rosette and eye is red.

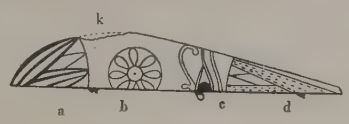


Fig. 345. — Rudder.

b. The centre is red; the radiating loops from the top one to the right are blue, green, red, yellow, blue, green, red, yellow; the outlines are black.

c. The eye-ball is black and white; the cosmetic stripes are blue.

d. Green with black dots and black outlines; the interior petal is white with blue shading at top and black outlines. *Nymphaea caerulea.*

The side (k) is damaged. Covered with plaster before painting.

4939. Bumper from the model of a ship. — Wood. — Height o m. 095 mill.

Fig. 346. — Buffer.

Roughly whittled; cut off square above; looped string inserted in hole in top and fastened with a peg. See fig. 346.

4940. Upper part of *šemes*-sign. — Hard wood. — Length o m. 23 cent.

Possibly from n° 4860. Traces of plaster and of yellow.

4941. Rudder from the model of a ship. — Wood. — Length o m. 46 cent., length of blade o m. 135 mill. — Licht(?), 1895.

Slanting hole for handle not far from end of stern. Inequalities filled with plaster. Traces of red paint on blade. Stem bent and cracked; surface worn.

4942. Rudder from the model of a ship. — Wood. — Length o m. 28 cent., length of blade o m. 09 cent. — Licht(?), 1895.

No holes. Smoothly finished. Slight traces of plaster. No coloring. Tip of blade, worn.

4943. Rudder from model of boat. — Wood. — Length o m. 28 cent., length of blade o m. 085 mill. — Licht(?), 1895.

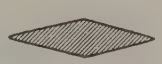


Fig. 347. Section, blade.

Like n° 4942. Stem broken in two and mended. Crack across blade. Tip of blade worn. Section of blade, see fig. 347.

4944. Model of a ship. — Wood. — Length 2 m. 34 cent., width 0 m. 38 cent., height middle 0 m. 22 cent., 0 m. 25 cent. — Thebes, June, 1898. Tomb of Amenophis II, Room 1, Section 4, Ship n° 1.

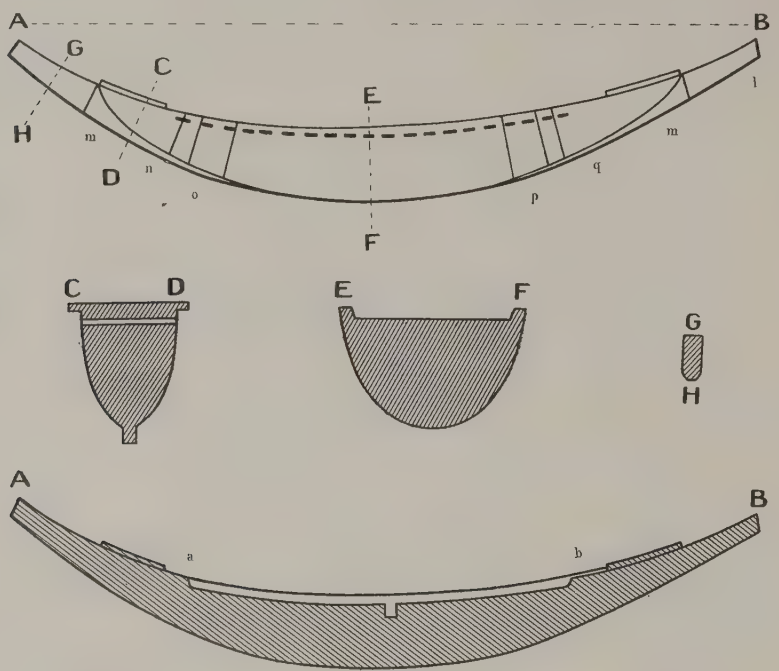


Fig. 348. — Profile and four sections.

Hull : Rounded bottom (fig. 348). Tip of bow and of stern flattened [1]; these flattened

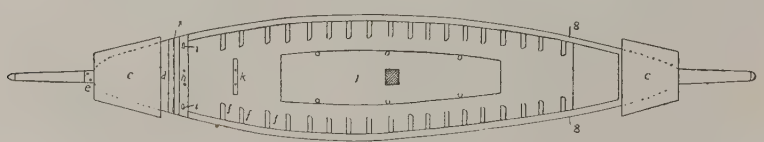


Fig. 349. — Deck-plan.

tips run back under the bottom of ship forming a sort of keel which grows lower and finally disappears near the middle. The ends of the cross beams are indicated by a row of projections along sides of ship. Deck is slightly hollowed (0 m. 025 mill.) for a distance of about 0 m. 61 cent. on each side of middle (a-b). Bow and stern covered with boards (fig. 349, c and fig. 350) which extend somewhat beyond sides of boat. In stern, a narrow board (d) not extending beyond sides. Marks of another board in front of *d* (h) and of a third board also in stern back of *c*, probably rest for

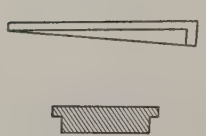


Fig. 350. — Board *c*.

[1] Formerly ended in curving flower like n° 4946.

rudders (e). On each side of deck, eighteen small blocks of wood (0 m. 05 cent. × 0 m. 02 cent. × 0 m. 015 mill.), serving as seats for rowers (f).

Rigging : Just back of each seat (f). the rail is pierced by a small hole for fastening oar. Similar hole also at (g). Two rectangular holes for fastening rudder-posts, passing through the board *h* (i).

Furniture : Long closed cabin in the middle (j). Back of this marks of an object, oblong, rectangular, resting cross wise (k).

Coloring : Ground color of bottom bluish green. Keel projecting beyond bow and stern, yellow (l-m, fig. 348). Bow and stern, bottom colored yellow (n and q); just beyond *n* and *q*, a yellow band (o and p). On each side of *o* and *p* and on the adjoining

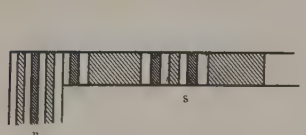


Fig. 351. — Colored border.

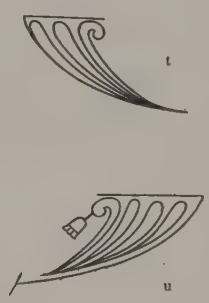


Fig. 352. — Scrolls, bow and stern.

Fig. 353. — Border.

ends of *n* and *q*, a red, blue and white border (fig. 351, r). Above *n*, *o*, *p*, *q*, a red and blue border on yellow back ground (fig. 351, s). The ends of *n* and *q* towards bow and stern are filled out with scroll (fig. 352, t and u). On *q* counting from bow, in the first field a ram's head, a hawk's head, resting on chapels; in the second field an udat-eye also above a chapel; in the third field, two hawks with sun's disc on head and outstretched wings, also above chapels; further a ram-headed sphinx trampling down an enemy. The fields are separated by vertical bands, red, white and light blue (fig. 353). In front of each hawk is a cartouche . In front of sphinx in blue hieroglyphies :

On *p* there is a human headed sphinx trampling down an enemy. On *o*, sphinx like *p*. On *n*, three hawk-headed beings with human bodies, each spearing an enemy (negro, asiatic, etc.), and a sphinx with hawk's head, trampling an enemy. In front of each a short inscription, light green on white. Behind a kneeling goddess with outstretched wings.

The *deck* is yellow. The *boards c* are dark blue on edges, unpainted above. *Seats*, yellow.

Technique : The hull is cut out of one piece except that a small piece is set on upper sides of tip of bow and of stern with pegs, and the projecting ends of cross-beams are separate pieces fitted into holes in sides. The seats, whose front inside corners are rounded off, are fastened to deck each

with one peg. The boards on bow and stern and all the furniture are also pegged on. The colors are applied directly on the wood.

Preservation : Board *d*, outside part broken off having once extended to line x. One seat gone.

Bibl. : *Journal d'entrée du Musée*, n° 32219.

4945. Model of a ship. — Wood. — Length 1 m. 90 cent., width 0 m. 36 cent., height middle 0 m. 20 cent., 0 m. 22 cent. — Thebes, 1898. — Tomb of Amenophis II. Room 1, Section 5, ship n° 1.

Like n° 4944, but smaller. Only twelve ends of cross beams projecting on each side and ten seats on each side. No hole in middle of space where the cabin stood.

Preservation : Projecting prow or bow broken off. Boards on stern, rudder-posts and two seats, gone.

Bibl. : *Journal d'entrée du Musée*, n° 32217.

4946. Model of a ship. — Wood. — Length 2 m. 02 cent., wide 0 m. 39 cent., height 0 m. 23 cent. — Thebes, June 1898. — Tomb of Amenophis II. Room 1, Section 4, 6. Ship n° 2.

Hull : Like n° 4944. Bow and stern, just alike, consisting of a stem, like n° 4944, ending in papyrus flower which curves back towards middle of ship [1]. No seats on deck. Boards on bow and stern (fig. 354, c, d, e, h), like n° 4944; one additional board on bow (a). Projecting ends of sixteen cross-beams.

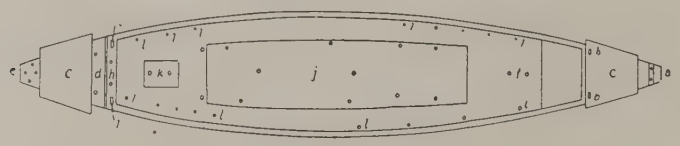


Fig. 354. — Deck-plan.

Rigging : The rail on each side is pierced by holes, fifteen in number, like n° 4944. Two holes for rudder-posts (i).

Furniture : Cabin like n° 4944 (j). Back of cabin, is a box (k). Both of them indicated only by marks on deck. In front of cabin, two holes (f). On bow board *e*, two oblong holes in which some object was fastened (b).

Coloring : Similar to n° 4944. The bands *o* and *p* are wanting. The boards *c* are yellow with red stripe along the side circa 0 m. 02 cent., from edge. See technique.

[1] Ends discovered later. Stern piece is entered as n° 5034, bow piece as n° 5049.

Technique : Tip of bow and of stern set on, where now broken off, by means of tongue and slot, pierced by metal nail; slot in body of boat. The boat shows traces of a reconstruction. The rail contains in upper surface eighteen holes filled with pegs and painted over, on each side; and the deck just inside of rail also contains a number of holes filled with pegs and painted over (l), exact number indeterminable. See also the holes in space covered by *j*. The top of the outside was also originally painted with red, blue and white stripes (similar to n° 4925) which have been painted over with dark green of rest of bottom.

Bibl. : *Journal d'entrée du Musée*, n°s 32218, 32573.

4947. Model of a ship. — Wood. — Length 0 m. 855 mill., wide 0 m. 14 cent., height 0 m. 085 mill. — Bersheh, tomb of Sepa, 1898 (pl. XXI).

Hull : Similar to n° 4909, but the bow and stern rise much higher and the flat bottom is raised to a sort of rectangular platform (a, fig. 355). Deck, slightly hollowed like n° 4909, etc. Bow-stick (b). On the stern, projection forming semicircular rest for rudder (c and fig. 356).

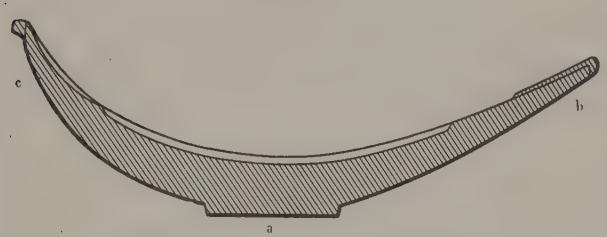


Fig. 355. — Section.

Fig. 356. — Stern.

Rigging : Small round mast-hole (fig. 357, d). End of rudder-post broken off in hole (e). Two holes one on each side of stern for fastening ropes (for rudder?) (f). Four pegs in deck aft of mast (l and fig. 358).

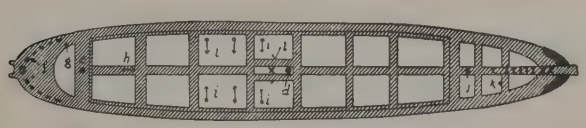


Fig. 357. — Deck-plan.

Fig. 358. — Sticks behind mast.

Crew : Helmsman originally (now lost) in hole *g*. Sitting figure (h), arms and body from neck down wrapped in white garment (similar to n° 48511 *k'* but without edge of flap being indicated), short wig covering ears, with white band tied behind, rough features. Six standing figures (i), feet together but slightly separated, arms crossed on breast, left over right in four cases, right over left in one and one indistinguishable; short skirts, projecting and flat in front, head dress like *h;* five

of them are wrapped in bits of linen. Two other holes in bow (j and k), one of which (k) was for lookout. Total crew seven, originally ten.

Coloring : Sides and bottom of boat, yellow with red stripe along top. Deck, white with red bars and black marks in bow and stern. Figures, red skin, black hair-parts and iris, white garments and white-of-eye.

Technique : Hull of one piece. Bow-stick pegged on. Figures fastened on with pegs. Covered with layer of plaster and painted.

Preservation : Very small pieces of plaster scaled off on tip of bow and stern.

Bibl. : *Journal d'entrée du Musée*, n° 32820. Label «T. 1.» in red ink. *Annales du Service*, II, p. 14 ff.

4948. Model of sailing ship with mummy. — Wood. — Length 0 m. 80 cent., width 0 m. 16 cent., height middle 0 m. 075 mill. — Bersheh, 1898, with n° 4947 (pl. XXII).

Hull : Long, slender, three sided, gradually becoming rounded towards the middle; rests on rectangular platform with sloping sides. Tip of bow rises straight up (fig. 359); tip of stern curves forward (b). Raised square rail, *c-d;* lower rounded rail, *c-f* and *d-g*. Inside of *a* and *b*, hollowed out as far as the bands *h* leaving a raised edge forming a continuation of rounded rail (see fig. 359, sections).

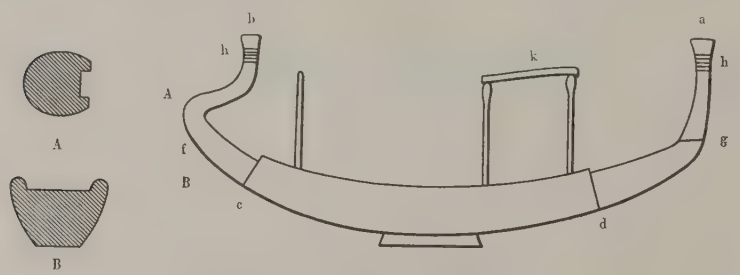


Fig. 359. — Profile and two sections.

Rigging : Roughly whittled, tapering *mast* (fig. 360, 1, amidships) resting in small round hole; the tip of mast is notched on top and pierced by two small holes, one

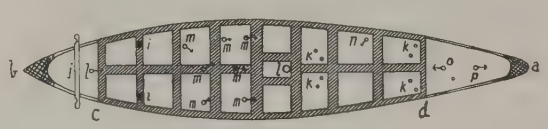


Fig. 360. — Deck-plan.

of which contains a fragment of string. Two *spars*, found lying cross-wise on the boat, wrapped with several bits of linen; roughly whittled, very slightly tapering, each end pierced by a small hole; through one of these holes on one spar passes a small string fastening a bit of the *sail* to the spar. This bit of sail has one edge bound

with over and over stitch, like n° 4841; another piece, a corner, has both edges bound. *Two rudder-posts,* like n° 4798 (i). *Two rudders,* round pointed blade, round stem, handle inserted at angle not far from middle of stem. *Rudder-rest,* j.

Furniture : Canopy, roof with four posts resting in holes (k). Beneath it, bed with lions' legs and two small lions' heads above head. On the bed, figure of a mummy.

Crew : Helmsman (l, aft), with both hands outstretched holding handles of rudders, squatting, short skirt from waist down covering feet, short wig covering ears. Seven sailors standing, feet together, arms outstretched, fists closed, short skirts and wigs; four still wrapped in bits of linen and other pieces of linen beside two others (m). On left side of bed, figure similar to *m,* holding a censor in both hands, left hand below, right hand above (n). In front of canopy and facing it, a sitting figure like fig. *h* on n° 4947. In bow, lookout, similar to sailors, left hand closed, slightly extended, right arm outstretched, hand open (p). Total crew, eleven figures (twelve with mummy).

Color : Platform red; bottom from *c* to *d* green with a white, a red, a green, a red and a white stripe in this order along the top of sides; bow and stern beyond *c* and *d,* yellow. On each side of bow, an eye in black. Deck, white with red bars. Rail from *c* to *d,* red; beyond yellow. Rudder-posts, yellow. Rudder, red with white band around tip and another near top of blade; blade with open *nymphæa cærulia* flower (fig. 361). Figures, red, white and black, like on n° 4947. Mummy, green wig, black eyebrows, eyelids, iris and cheek-beard. Canopy and bed, yellow. Lions' heads on bed, green hair-parts, yellow face.

Fig. 361. — Rudder.

Technique : Hull of one piece. Upright pieces *a* and *b,* of separate pieces. Round rail (c-f, d-g) and rudder-rest, held by plaster. Rudder-posts, masts, canopy posts, feet of bed, rest in holes. All figures pegged on. Censor fastened with plaster to hands of figure. Roof of canopy, made of long board resting at one end on narrow cross piece; above, posts fit in holes. Covered with smooth layer of plaster and painted. Arms of figures pegged on.

Preservation : Excellent. Handle gone from one rudder.

Bibl. : *Journal d'entrée du Musée,* n° 32819. Label with « T. 1. » in red ink. *Annales du Service,* II, p. 14 ff.

4949. Model of a solar ship. — Wood. — Length 0 m. 875 mill., width 0 m. 16 cent., height 0 m. 065 mill. — Bersheh, 1898, with n° 4947 (pl. XXII).

Hull : Flat bottom with sloping sides like n° 4804. Low rounded rail running from end

to end. Raised prow covered with box-like object open on the sides (fig. 362, a). Tip of stern, raised and curved back (i. e. out).

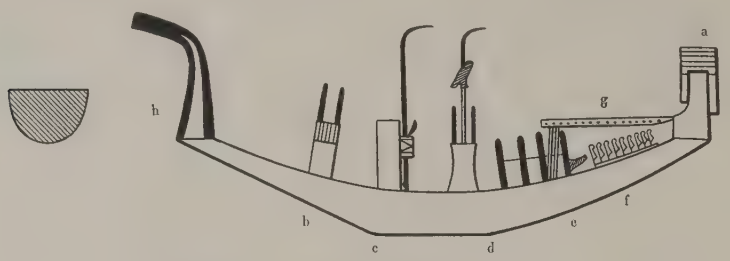


Fig. 362. — Profile and section of stern-post.

Rigging : None.

Furniture : Towards the stern, tall square box bearing round black stick on each corner (figs. 362, 363, b). In front of this, another box-like object with a *šms*-sign (c). Then a cylinder, bearing originally three sticks (the stick with curved tip is in the center) and

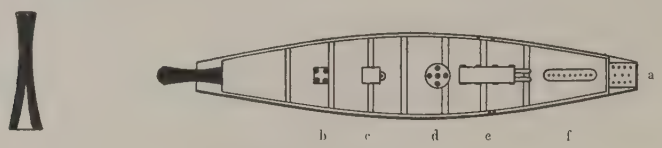


Fig. 363. — Deck-plan.

two hawks each on a pole (d). Then, a long low rectangular box-like object with four flat sticks on each side and two hawks on the forward end, facing upwards (e). In the bow, a board with nine feathers in a row (f). On the rail on each side of bow, a sort of railing (g); the upper bar pierced by twelve holes. On top of the bow-cover *a* three rows of holes containing ends of pegs (4 + 3 + 4 holes). Five small tapering sticks beside the boat, which formerly stood in outside rows of holes on *a*.

Coloring : Hull, white. Object *a* on bow, white and light blue with black outlines (fig. 364). Curving stern-post, black with white slashes (h) on front and sides. Deck, white with red bars. Object *b*, yellow with black edges and black stripes on all four sides. Objects *c*, *d* and *e*, yellow with black sticks. The hawks on *d* are yellow. Body of *šms*-sign, yellow with red lines; rest of it, red. Board *f*, red with white feathers. Railing *g*, white. Small sticks from top of *a*, red.

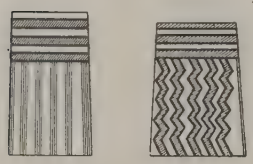


Fig. 364. — Prow box.

Technique : Hull, of one piece. Prow and stern-post, set on with tongue and slot. Object *a*, *b*, *c*, *d*, *e*, *f*, pegged on; also body of *šms*-sign to object *c*. All other pieces rest in holes, i. e. posts, feathers, etc., on objects a-f; posts of railing. Ends of horizontal bars of railing fastened to prow with tongue and slot. Covered with plaster and painted, even on the bottom.

Preservation : Two posts gone from *b;* one post and one hawk, from *d;* two sticks, from *e;* all objects from *a* (five sticks beside the boat). Plaster scaled off in a few places.

Bibl. : *Journal d'entrée du Musée*, n° 32818; *Annales du Service*, II, p. 14 ff.

4950. Mast and spars (two) wrapped in sail (?), from model of a ship. — Wood, linen and glazed steatite. — Length 0 m. 47 cent., length of fayence tip 0 m. 085 mill. — Bersheh, 1898.

Smooth tapering *mast,* sharpened at lower end; upper end fits in hollow of a *green-glazed steatite tip;* this fayence tip bears three eyelets on each side and one on the top. Two rough spars, tapering towards the ends. A piece of linen is wrapped spirally around the whole and another piece (a sail?), neatly folded, is tied with a string around the middle.

Bibl. : *Annales du Service*, II, p. 14 ff.

4951. Model of sailing ship with canopy. — Wood. — Length 0 m. 65 cent., width 0 m. 13 cent., height middle 0 m. 07 cent. — Bersheh, 1898 (pl. XXIII).

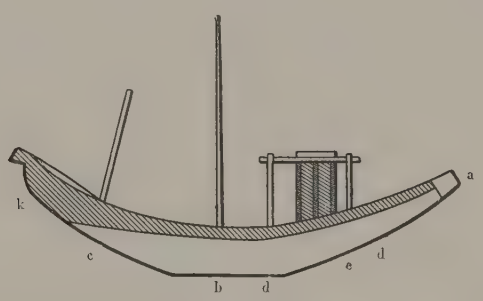


Fig. 365. — Profile.

Hull : Similar to n° 4947, but stern not so high and tip of bow cut off straight

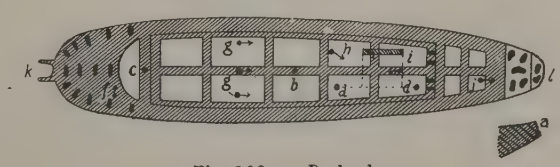


Fig. 366. — Deck-plan.

(figs. 365, 366 and a). Deck slightly hollowed like n° 4947. Deck on stern higher in the middle than on the sides (unlike n° 4947). Bottom flat in middle.

Rigging : Rough tapering mast (b) with small hole near the top and slit in top; and rough slightly tapering spar with slit in each end. Flat rudder-post with crotch cut in upper end (c and fig. 367). Rough rudder with pointed blade.

Furniture : Small canopy consisting of two posts each with a crotch at the top (d and fig. 368) bearing a cross piece on which rests one end of the roof; the other end of roof rests on a narrow wall on the left side of boat (e).

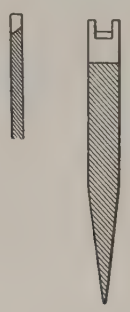


Fig. 367. — Rudder-post.

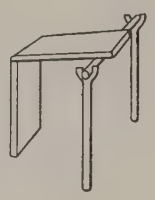


Fig. 368. — Canopy.

Crew : Helmsman (f), squatting, right arm extended, white garment covering whole body but leaving left arm and shoulder exposed. Four sailors (g), standing feet together, both arms outstretched, fists closed, short white skirt. A servant (porter) (h), feet together, arms slightly extended, left hand open, right hand closed, carrying a bag, with a box on top of it, held by a cord around the throat; short white skirt. Under canopy, a sitting figure like n° 4947 *h* (i). Lookout (j), like sailors, right arm outstretched, left slightly extended. All figures have short black wigs covering ears. Total crew, eight.

Coloring : Bottom, dirty white, with red stripe along top (k). Tip of bow (l) painted white and black in imitation of a hide. Deck, white with red bars and black marks. Rudder-post, red with white top. Mast, natural color with black top. Spar, natural color with black ends and three black bands. Posts of canopy, natural color, with black top; cross bar, black ends and three black bands; roof and side wall, yellow with black stripe along outside edges and along middle. Figures, red, white and black as usual.

Technique : Hull, of one piece. All posts rest in holes except mast. Mast and all figures pegged on. Arms of figures pegged on. Roof of canopy pegged to cross bar and to side wall; side wall pegged to deck. Cross bar fastened to crotch of posts with plaster. Covered with layer of plaster and painted.

Preservation : Perfect.

Bibl. : *Journal d'entrée du Musée*, n° 32822.

4952. Model of a sailing ship with canopy and mummy. — Wood. — Length 0 m. 743 mill., width 0 m. 192 mill., height middle 0 m. 125 mill. — Bersheh, 1898 (pl. XXIII).

Hull : Like n° 4909. Bow-stick (a). See fig. 369.

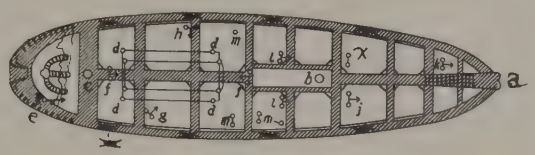


Fig. 369. — Deck-plan.

Rigging : Hole for mast with end of mast broken off in it (b). Hole for rudder-post with end broken off in it (c).

Furniture : Canopy roof with four posts (d). Under it, a bed with lion's feet and two lions' heads on the head of it.

Crew : Helmsman (e) squatting with knees drawn up, both arms raised, hands closed and pierced, short skirt, leaving legs from knee down bare. Two female figures, one at head and one at foot of bed (f), feet together, standing, body bent slightly forwards, arms outstretched over the mummy, hands open, palms down, short skirt supported by band over left shoulder, wig falling in short plait down the back, leaving ears exposed. Mummy on bed, wig in three plaits, one over each shoulder, one down the back, necklace of six red and five black strands across the breast. Beside the bed two standing figures of men (g and h) feet together, arms extended bent at elbows; figure *g* holds a censor in the right hand and a leg of sacrificial animal in the left; arms of figure *h* broken off at elbows; heads shaved; short skirt. Two sailors (i)[1], standing, feet together, arms uplifted, fists closed and pierced, short skirt. In front of mast, a figure (sailor?) standing, feet together, right arm bent, hand drawn up to shoulder and closed, left arm slightly extended, hand open, palm in (j) and peg-holes for another figure which is missing (x). Lookout (k), like sailors, left arm outstretched, hand open, palm in, right arm slightly extended, hand closed and pierced. In addition, a number of holes in which possibly other figures were fastened (m). Total crew, at present, ten[2] (with mummy). Figures *e*, *g*, *i*, *j* and *k* have side beards.

Coloring : Bottom, white with narrow red stripe along top. Deck, with red bars and rail and black marks; the black marks connecting joints of beams are especially to

[1] One of these has been transferred to *x* since the above was written, see pl. XXIII.

[2] The figure *h* has been removed since the above was written, leaving only nine figures, see pl. XXIII.

be noticed. Canopy (fig. 370), — posts, white with alternate red and black bands at short intervals; roof, white with three rows of seven black crosses (+) on under side, with black zigzag line on edges, with two fields on top each with five shields in black and red surrounded by black zigzag line (fig. 371). Bed, yellow; lions' heads

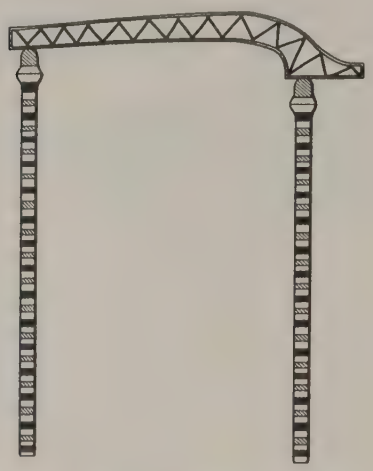


Fig. 370. — Canopy.

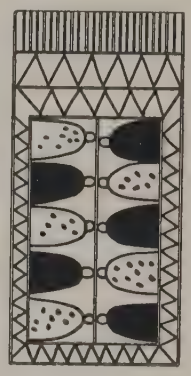


Fig. 371. — Roof of canopy.

red with black wigs, ears, lips, eyelids and iris; lion's feet, black. Mummy, — black hair-parts, yellow skin, white wrappings. Female figures, — yellow skin, white garments and wig, black eyelashes, eyebrows and iris, white white-of-eye. Male figures, white, red and black as usual.

Technique : Hull, of one piece. Bow-stick and helmsman, pegged. All other figures, fastened by two peg-like prolongations, one on each heel, resting on deck. Arms of figures, pegged on. Mummy, lions' heads and legs, pegged to body of bed. Posts, rest in holes. Covered with layer of plaster and painted.

Preservation : Stern broken, and part of it gone. Tip of bow-stick broken off.

Bibl. : *Journal d'entrée du Musée*, n° 32821. *Annales du Service*, II, p. 14 ff.

4953. Model of a solar ship. — Wood. — Length 0 m. 745 mill., width 0 m. 13 cent., height middle 0 m. 06 cent. — Bersheh, 1898 (pl. XXIV).

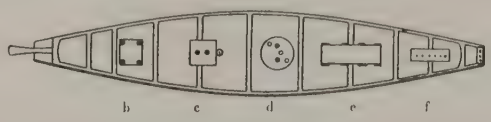


Fig. 372. — Deck-plan.

Hull : Like n° 4949, but smaller. No box-like object on bow.

Rigging : None.

Furniture : Like n° 4949 except for minor differences (fig. 372). The *šms*-sign is

defective (fig. 373). The cylindrical object is a perfect cylinder; and bears two sticks with hawks; shows traces of three other sticks, which were probably broken off before the boat was finished (fig. 374). The board in bow has only six feathers. The rail is supported by only one post and is not pierced. The top of prow bears ends of three sticks painted black (not pegs) and is complete thus without the box-like cover.

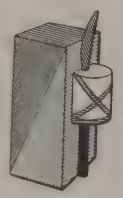


Fig. 373. Object *c*.

Coloring : Hull, like n° 4949 except that the extremely low rail is also red. Object *b*, — upper part (more than half) yellow, lower part red, separated by a black line, vertical edges black. Object *c*, — rectangular part, half yellow, half red, divided obliquely by a black line (fig. 373). Cylinder *d*, like *b* except there are no vertical edges. For the rest, painted like n° 4949.

Fig. 374. — Top of *d*.

Technique : Like n° 4949, except that the prow and the stern post seem to be pegged on.

Preservation : One hawk gone from *d*.

Bibl. : *Journal d'entrée du Musée*, n° 32823. *Annales du Service*, II, p. 14 ff.

4954. Prow-cover from the prow of a solar ship. — Wood. — Height 0 m. 13 cent., height with sticks 0 m. 17 cent. — Bersheh, 1897-1898 (pl. XXXII).

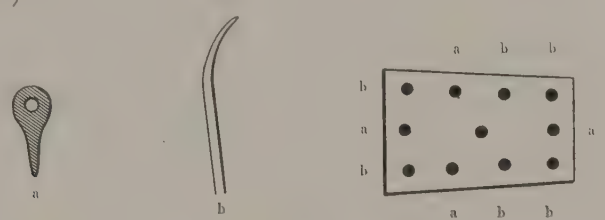


Fig. 375. — Top of prow-cover.

On top, in the center a rough hawk on a stick, in front and behind the hawk, a flat stick swelling above and pierced (fig. 375, a), on each side is a row of sticks, first

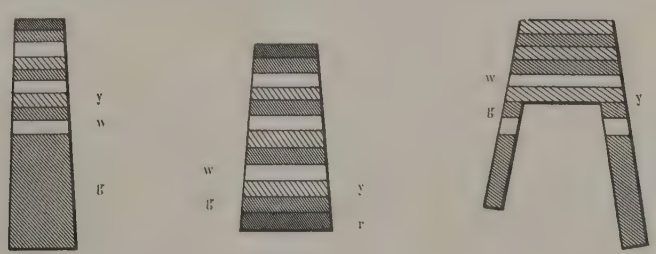


Fig. 376. — Colors on prow-cover.

two pointed curved stick (b), then one like *a* and then one more pointed curved stick. Top, red; sides have yellow, white, green and red bands separated by black lines (fig. 376). The front board is fastened on with pegs. The rest is one piece. The

sticks on top are inserted in holes; and the cover was originally fastened to the prow by means of two pegs.

Bibl. : *Journal d'entrée du Musée*, n° 32825.

4955. Model of a ship. — Wood. — Length o m. 71 cent., width o m. 133 mill., height o m. 09 cent., o m. 083 mill. — Bersheh, 1898 (pl. XXIV).

Hull : High stern and bow, rising up more than on n° 4952. Deck, not hollowed out.

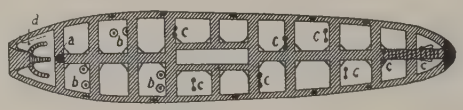


Fig. 377. — Deck-plan.

Rigging : Hole for rudder-post (fig. 377, a).

Furniture : Three pairs of small peg-holes for fastening round objects (posts of canopy) (cf. n° 4951) (b).

Crew : Eight pairs of holes (c) for eight figures, as on n° 4952 and one small hole for helmsman (d).

Coloring : White with red bars and black marks similar to n° 4952.

Technique : Like n° 4852. Bow-stick only painted on.

Preservation : Completely stripped of rigging, men, etc. Stern, piece broken out of left side.

Bibl. : *Journal d'entrée du Musée*, n° 32824.

4956. Mast-tip from the model of a ship. — Green fayence with brown streaks. — Length o m. 086 mill. — Bersheh, 1898 (pl. XXVII).

Like the tip of n° 4950.

4957. Prow-cover from the model of a solar ship. — Wood. — Height o m. 125 mill. — Bersheh, 1898 (pl. XXXII).

Like the prow-cover n° 4954. The sticks, eleven in number as on n° 4954, are all broken off. The back board is a separate piece pegged on, instead of the front one. Fastened to prow by a single peg.

Bibl. : *Journal d'entrée du Musée*, n° 32825.

4958. Rectangular object (like n° 4949 *b*) with four sticks on top from the model of a solar ship. — Wood. — Height 0 m. 14 cent., height with sticks 0 m. 17 cent. — Bersheh, 1898 (pl. XXXII).

Fig. 378.

Sticks, black. Body white, vertical edges black; each face has three narrow vertical red stripes. One stick broken off. See fig. 378.
Fastened to deck by a single peg.

Bibl. : *Journal d'entrée du Musée*, n° 32825.

4959. *Šemes*-sign (like n° 4949 *c*) from the model of a solar ship. — Wood. — Height 0 m. 155 mill., height with stick 0 m. 22 cent. — Bersheh, 1898 (pl. XXXIII).

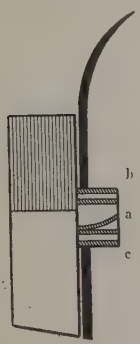


Fig. 379.

Sticks black. Piece *a* on the side white with red lines. Main body has upper part yellow; lower part, white. Bottom cut off slanting. Fastened originally to deck by a single peg. Piece *a* pegged to main pieces. Sticks fastened in holes in *a*. Two pieces broken off of *a* at *b* and *c*. Plaster scaled off in places. See fig. 379.

Bibl. : *Journal d'entrée du Musée*, n° 32825. In pencil on bottom «Ouest».

4960. *Šemes*-sign (like n° 4949 *c*) from the model of a solar ship. — Wood. — Height 0 m. 14 c., height with stick 0 m. 205 mill. — Bersheh, 1898 (pl. XXXIII).

Fig. 380.

Like n° 4959. The small piece *b* colored black is preserved. There was never anything at *c*. See fig. 380.

Bibl. : *Journal d'entrée du Musée*, n° 32825.

4961. Cylindrical object (like n° 4949 *d*) with sticks on top, from the model of a solar ship. — Wood. — Height 0 m. 058 mill., height with stick 0 m. 134 mill., diameter 0 m. 041 mill. — Bersheh, 1898 (pl. XXXII).

Fig. 381.

Cylinder painted white. In top, a row of three holes, of which the two outside holes (a) contain each a black stick from the top of which something has been broken off. Fastened to deck with a peg. See fig. 381.

Bibl. : *Journal d'entrée du Musée*, n° 32825.

4962. Box-like object (like n° 4949 *e*) with two hawks on forward end and eight flat sticks four on each side from the model of a solar ship. — Wood. — Main body o m. 15 cent. × o m. 04 cent. × o m. 042 mill., length with hawks o m. 188 mill., height with sticks o m. 095 mill. — Bersheh, 1898. — Tombeau de[1] Nefra ( ) (pl. XXXIII).

White with dark red sticks. Position of sticks shown by red and black lines accidentally made in painting the sticks. Six sticks and one hawk gone. Great deal of plaster scaled off. Fastened to deck by two pegs. Hawks fastened by one peg each. Sticks simply stuck to plaster.

Bibl. : *Journal d'entrée du Musée*, n° 32825. *Annales du Service*, II, p. 14 ff. In pencil on end «Nefra».

4963. Small hawk from an object like n° 4962. — Wood. — Height o m. 038 mill. — Bersheh, 1898 (pl. XXXIII).

Wings and back, traces of blue. Face and legs, traces of yellow. Stands on wooden plate, all of one piece. Pegged to object *e* (see n° 4949).

Bibl. : *Journal d'entrée du Musée*, n° 32825.

4964. Figure of Horus as child from prow of model of a solar ship. — Wood. — Height o m. 04 cent. — Bersheh, 1898 (pl. XXXIII).

Squatting; finger in mouth, lock of hair on side of head. Hair parts and iris, black. Skin, red. Originally fastened with peg to prow.

Bibl. : *Journal d'entrée du Musée*, n° 32825.

4965. Board with eight feathers (like n° 4949 *f*). — Wood. — Height o m. 055 mill., length o m. 13 cent., wide o m. 05 cent. — Bersheh, 1898 (pl. XXXIII).

Five feathers broken off. Feathers, white; board, yellow. Board was fastened by two pegs, in opposite corners, to deck. Covered with plaster and painted.

Bibl. : *Journal d'entrée du Musée*, n° 32825.

4966. Two pieces of railing (like n° 4949 *g*)[2] from the bow of the model of a solar ship. — Wood. — Length o m. 235 mill. — Bersheh, 1898 (pl. XXX).

This railing seems not to have been raised but to have been fastened directly on edge of deck by means of four pegs (a). The upper or curved surface is marked by

[1] See canopic chest n° 4981.

[2] See however n° 4860 *t*.

oblique incised lines. The under surface was fitted in a groove in the edge of the boat (b). The railing is pierced by seventeen horizontal holes. The end is rounded (c) off. Traces of plaster. See fig. 382.

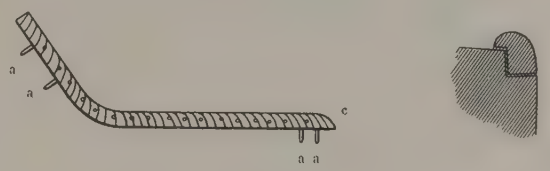


Fig. 382.

4967. Oar from the model of a ship. — Wood. — Length 0 m. 195 mill. — Bersheh, 1898.

Roughly whittled. Narrow pointed blade, flat on one side.

4968. Rudder from the model of a ship of the dead. — Wood. — Length 0 m. 515 mill., length blade 0 m. 14 cent. — Bersheh, 1898 (pl. XXV).

Fig. 383. — Rudder.

Flaring, round pointed blade. Stem swelling slightly in the middle. Painted, red, white and green. No handle. Bits of string clinging to stem. White is plaster. See fig. 383.

Bibl. : *Journal d'entrée du Musée*, n° 32826, *a*.

4969. Rudder from the model of a ship of the dead. — Wood. — Length 0 m. 53 cent., length blade 0 m. 138 mill. — Bersheh, 1898 (pl. XXVI).

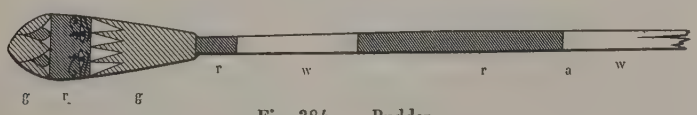


Fig. 384. — Rudder.

Slender blade, rounded at tip. Slanting hole for handle (a). Painted red, green, white and black. White is plaster. End of stem broken off. See fig. 384.

Bibl. : *Journal d'entrée du Musée*, n° 32826, *b*.

4970. Rudder from model of a ship. — Wood. — Length o m. 425 mill., length blade o m. 155 mill. — Bersheh, 1898 (pl. XXVI).

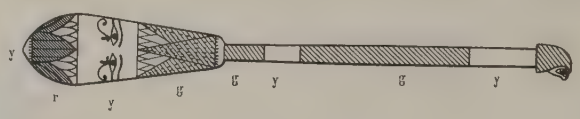


Fig. 385. — Rudder.

Slender blade pointed at tip. Stem surmounted by a hawk's head. No handle. Painted red, yellow, green, black and white. See fig. 385.

Bibl. : *Journal d'entrée du Musée*, n° 32826, *d*.

4971. Rudder from the model of a ship of the dead. — Wood. — Length o m. 425 mill., length blade o m. 15 cent. — Bersheh, 1898 (pl. XXVI).

Similar to n° 4970 except that the stem is painted red and white instead of green and white and is not surmonted by a hawk's head. The blade is also pierced by a hole through upper part o m. 035 mill. from where blade joins stem [1].

Bibl. : *Journal d'entrée du Musée*, n° 32826, *e*.

4972. Rudder from the model of a ship of the dead. — Wood. — Length o m. 49 cent., length blade o m. 17 cent. — Bersheh, 1898 (pl. XXVI).

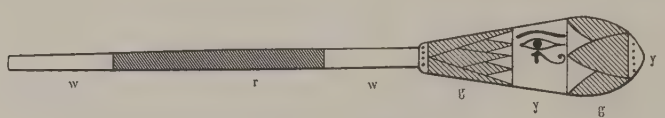


Fig. 386. — Rudder.

Long slender blade, with round tip. Stem, tapering towards the end. Hole in stem (a) for handle. Painted red, white, green, black and yellow. See fig. 386.

Bibl. : *Journal d'entrée du Musée*, n° 32826.

4973. Rudder-rest from model of ship of the dead. — Wood. — Length o m. 164 mill. — Bersheh, 1898 (pl. XXX).

Short beam, bearing a hawk's head on each end. Hawks' heads face upward. Beam, green. Wig of hawks, blue; face of hawks, yellow with black marks. Beam, on underside where it rested on stern of boat, unpainted. Was fastened to deck by means of two pegs one of which is preserved.

Bibl. : *Journal d'entrée du Musée*, n° 32826.

[1] Cf. n° 4818.

4974. Model of a boat. — Fine grained yellow limestone. — Length 0 m. 105 mill., height 0 m. 055 mill. — Bersheh, 1898 (pl. XXIV).

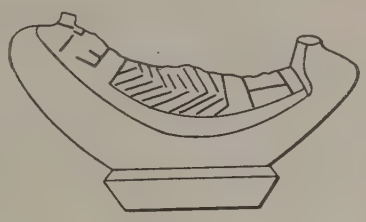


Fig. 387.

Hull : Rests on flat oval base (fig. 387). Ends curve up and in. Deck rises up in a ridge in the middle, and the top of this ridge with whatever stood on it has been broken away [1].

Coloring : Deck laid out with black lines and shows traces of red and light green. Prow and stern show traces of red. Ground color, yellow.

Preservation : Top of ridge of deck, tips of prow and stern, and a piece out of base, broken off.

4975. Model of a boat. — Fine grained yellow limestone. — Length 0 m. 104 mill., height 0 m. 063 mill. — Bersheh, 1898 (pl. XXIV).

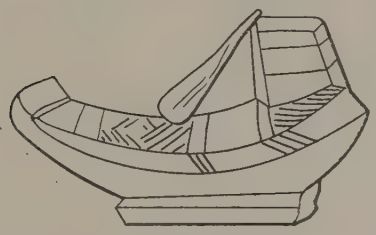


Fig. 388.

Hull : Similar to n° 4974 except that the deck bears a sort of cabin with a support and the stern ends abruptly back of this cabin. See fig. 388.

Coloring : Deck, cabin and support laid out with black lines and showing splotches of red paint. Ground color, yellow.

Preservation : Tip of prow, rudder (?) on underside of stern and large part of base, broken away.

4976. Three short round sticks possibly from the cylindrical object (n° 4949 *d*) from the model of a solar ship. — Wood. — Height 0 m. 077 mill. to 0 m. 085 mill. — Bersheh, 1898.

Fig. 389.

Each end cut down to a short peg; but the shortest stick has a hole in one end instead of a peg. Each stick is marked by two spiral incised lines. Originally covered with plaster and painted. See fig. 389.

5034[2]. Tip of stern of a boat with lotus flower[3]. — Wood. — Length 0 m. 42 c. — Thebes. Tomb of Amenophis II, grande salle, section 2 (?), 1898.

Stern shaped like the projecting end of n° 4946. End curves forward and bears five

[1] Cf. n° 4919.
[2] See n°s 4944-4946 above and 5035-5200 below.
[3] Joins into stern of n° 4946.

bands just at base of flower. Bands separated by incised lines painted red. Underside of flower painted with red lines. Ground color yellow.

Technique : Pieced about the middle by tongue and socket joint. Lotus flower joined to stern by tongue and socket joint.

Preservation : Broken in two near end.

Bibl. : *Journal d'entrée du Musée*, n° 32573 *B*.

5035. Prow of a model of ship similar to n° 4944. — Wood. — Length 0 m. 325 mill. — Thebes. Tomb of Amenophis II, great hall, section 4, 1898.

Prow with tip of bow. Painted yellow with green, white, red, blue and black ornamentation, similar to n° 4944. Prow fastened on by tongue and socket joint. Upper surface of bow shows holes by which the bow board was pegged on. Beyond, the hollow part of deck begins.

Bibl. : *Journal d'entrée du Musée*, n° 32621 *B*; Daressy, *Fouilles*, n° 5035.

5036. Piece from bow or stern of model of ship similar to n° 4944. — Wood. — Length 0 m. 23 cent. — With n° 5035.

All one piece. Painted, red, blue, green, white and yellow. Peg holes in top. One side broken off. End, sawed surface.

Bibl. : *Journal d'entrée du Musée*, n° 32621 *C*; Daressy, *Fouilles*, n° 5036.

5037. Piece from end of a model of a ship similar to n° 4944. — Wood. — Length 0 m. 205 mill. — With n° 5035.

All one piece. Painted red, green, blue, white and yellow. Peg holes in top.

Bibl. : *Journal d'entrée du Musée*, n° 32621 *D*; Daressy, *Fouilles*, n° 5037.

5038. Piece of prow, tip, from model of a boat similar to n° 4946[1]. — Wood. — Length 0 m. 245 mill. — With n° 5035.

Painted yellow.

Bibl. : *Journal d'entrée du Musée*, n° 32621 *E*; Daressy, *Fouilles*, n° 5038.

5039. Piece of prow and tip of bow or stern of boat similar to n° 4946. — Wood. — Length 0 m. 23 cent. — With n° 5035.

All one piece. Painted, similar to n° 4949. Apparently, once pieced at the end. Peg holes in top.

Bibl. : *Journal d'entrée du Musée*, n° 32621 *F*; Daressy, *Fouilles*, n° 5039.

[1] Fits on n° 4945.

5040. Piece of end of prow of model of boat, similar to n° 4946. — Wood. — Length o m. 23 cent. — With n° 5035.

Almost perfect piece which was pegged on, to complete the prow. Painted yellow.

Bibl. : *Journal d'entrée du Musée*, n° 32621 *G*; Daressy, *Fouilles*, n° 5040.

5041. End of the model of a boat. — Wood. — Height o m. 28 cent. — Tomb of Amenophis II, grande salle, section 4, 1898.

Like n° 5042, except in manner of attachment to bow or stern. Tongue and socket joint. Tongue broken off, and also portion of upper part. Painted yellow.

Bibl. : *Journal d'entrée du Musée*, n° 32620; Daressy, *Fouilles*, n° 5041.

5042. End of the model of a boat. — Wood. — Height o m. 28 cent. — Tomb of Amenophis II « un escalier, entre les deux salles, deux couloirs », 1898.

Stem, flat on top and bottom, rounded on the sides, curving up and ending in a four rings and an eight sided flower. Except for crack perfect. Pegged to bow or stern of ship. Covered with coat of plaster. Painted yellow. Cracked.

Bibl. : *Journal d'entrée du Musée*, n° 32316; Daressy, *Fouilles*, n° 5042.

5043. End of the model of a boat. — Wood. — Height o m. 30 cent. — Tomb of Amenophis II, grande salle, section 1 (? 2 ?), 1898.

Similar to n° 5042 except that the stem curves back and is attached to bow or stern like n° 5041, being glued on. Painted yellow. Extreme tip of sides of socket still clinging to the corners.

Bibl. : *Journal d'entrée du Musée*, n° 32563; Daressy, *Fouilles*, n° 5043.

5044. End of the model of a boat. — Wood. — Height o m. 33 cent. — Tomb of Amenophis II, grande salle, 1 (? 2 ?) et 6.

Stem and flower like n° 5042. Curving back. Pegged to boat. Covered with thin coat of plaster and painted yellow. Broken in two at bands at base of flower.

Bibl. : *Journal d'entrée du Musée*, n°s 32564 and 32608; Daressy, *Fouilles*, n° 5044.

5045. End of the model of a boat. — Wood. — Height o m. 25 cent. — Tomb of Amenophis II, grande salle, section 4.

Stem, flat on top and bottom, rounded on sides, thick and short, curving sharply back and ending in broad open flower. At base of flower, five bands separated by

red lines. Upper side of flower, red with yellow ring around outer edge. Underside, light green with yellow ring crossed by red lines around outer edge and with yellow leaves marked by red lines around base. Covered with thin coat of plaster before painting. Stem of two pieces fastened by a thin sheet of wood inserted in the thickness of both parts of stem. Flower, pegged on. The whole pegged to boat by three pegs. Broken in two lengthwise. End of flower on two sides, broken off.

Bibl. : *Journal d'entrée du Musée*, n° 32620 *B*; Daressy, *Fouilles*, n° 5045.

5046. End of the model of a boat. — Wood. — Height 0 m. 25 cent. — With n° 5045.

Like n° 5045. Cracked. Rim of flower on one side, broken off. Part of bow or stern of boat still cling to angle.

Bibl. : *Journal d'entrée du Musée*, n° 32620 *A*; Daressy, *Fouilles*, n° 5046.

5047. End of the model of a boat. — Wood. — Height 0 m. 20 cent. — Tomb of Amenophis II, grande salle, section 6.

In form and coloring like n° 5045. Bands around base of flower, only painted on. Broken off at curve of neck. Flower fastened on apparently like n° 5048.

Bibl. : *Journal d'entrée du Musée*, n° 32607; Daressy, *Fouilles*, n° 5047.

5048. End of the model of a boat. — Wood. — Height 0 m. 26 cent. — Tomb of Amenophis II « un escalier, entre les deux salles, deux couloirs », 1898, grande salle, 4.

Like n° 5047. Flower fastened on by means of slender tongue and socket with peg through tongue. Stern broken off nearer body of boat than on n° 5047.

Bibl. : *Journal d'entrée du Musée*, n°s 32315 and 32621 *A*; Daressy, *Fouilles*, n° 5048.

5049. End of the model of a boat[1]. — Wood. — Length 0 m. 26 cent. — Tomb of Amenophis II, grande salle, section 2 (?).

Form like n° 5034. Painted yellow with red rings around stern at base of flower, and leaves (red outlines) on base of flower. Flower fastened on like n° 5048. Stern broken in two just below bands and mended by inserting a slanting peg. Was fastened to boat by tongue and socket joint. Broken in two just below the mended place.

Bibl. : *Journal d'entrée du Musée*, n° 32573.

[1] Appears to belong to n° 4946.

5050. Blade of a rudder from the model of a ship[1]. — Wood. — Length 0 m. 40 cent. — Tomb of Amenophis II, grande salle, section 16.

Rather angular blade with round pointed tip. Covered with plaster.

BIBL. : *Journal d'entrée du Musée*, n° 32555; DARESSY, *Fouilles*, n° 5180.

5051. Rudder-rest from the model of a ship. — Wood. — Length 0 m. 267 mill. — Tomb of Amenophis II, grande salle, section 2 (?).

Semicircular hollow near each end for receving stem of rudder. Fastened with two pegs to deck. Painted yellow.

BIBL. : *Journal d'entrée du Musée*, n° 32575; DARESSY, *Fouilles*, n° 5123.

5052. Two post of a canopy from the model of a ship. — Wood. — Height 0 m. 535 mill., height 0 m. 33 cent. — Tomb of Amenophis II, grande salle, section 10.

Painted yellow. Peg-like prolongation on top to fit hole in roof. Hole in bottom to admit peg. One post broken in two.

BIBL. : *Journal d'entrée du Musée*, n° 32685; DARESSY, *Fouilles*, n° 5154.

5053. Two rudder-posts from the model of a ship. — Wood. — Height 0 m. 295 mill., height 0 m. 275 mill. — Tomb of Amenophis II, grande salle, section 2 (?) and 6.

Square below, changing to round above. Surmounted by hawk's head. Stem, yellow. Face of hawk, yellow with black markings; wig of hawk, greenish blue. Inside half of bottom prolonged to form a tongue which was inserted in slot in deck. Covered with coat of plaster before painting. The inside of each post rested against some elevation on deck. Tongue on bottom of one post broken off.

BIBL. : *Journal d'entrée du Musée*, n°s 32574 and 32609 *A*; DARESSY, *Fouilles*, n° 5159.

5054. Pair of hawks' heads similar to the heads on n° 5053. — Wood. — Height 0 m. 035 mill. — Tomb of Amenophis II, grande salle, section 4.

Eyes and beak, black; no eye-marks. In underside, good-sized hole for fastening to post.

BIBL. : *Journal d'entrée du Musée*, n° 32609 *F* and *G*; DARESSY, *Fouilles*, n° 5160.

[1] See n° 5217.

5055. Hawk's head like that on n° 5053. — Wood. — Height o m. 028 mill. — Tomb of Amenophis II, grande salle, section 4.

Was glued on post. Plaster knocked off behind.

Bibl. : *Journal d'entrée du Musée*, n° 32609 *E;* Daressy, *Fouilles*, n° 5161.

5056. Hawk's head like that on n° 5053. — Wood. — Height o m. 027 mill. — With n° 5055.

Was glued on post.

Bibl. : *Journal d'entrée du Musée*, n° 32609 *D;* Daressy, *Fouilles*, n° 5161.

5057. Hawk's head like n° 5054. — Wood. — Height o m. 029 mill. — With n° 5055.

No hole in bottom. Was glued on post. Plaster knocked off behind.

Bibl. : *Journal d'entrée du Musée*, n° 32609 *B;* Daressy, *Fouilles*, n° 5161.

5058. Hawk's head like n° 5054. — Wood. — Height o m. 03 cent. — With n° 5055.

Hole in bottom smaller. Also glued on post.

Bibl. : *Journal d'entrée du Musée*, n° 32609 *C;* Daressy, *Fouilles*, n° 5136.

5059. Upper end of a rudder from the model of a ship. — Wood. — Length o m. 242 mill. — With n° 5054.

Round stem pierced by a slanting hole for fastening the handle and surmounted by human head with rams' horns and with the double crown. Painted yellow with blue wig, black eyebrows, eyelashes, cosmetic stripes and iris, and white white of eye. Crown and head, each bears a tongue projection on underside which fits into hole in head and in post respectively. Horns inserted in holes. Horns now lost.

Bibl. : *Journal d'entrée du Musée*, n° 32617 *A;* Daressy, *Fouilles*, n° 5156.

5060. Head of rudder, similar to n° 5059[1]. — Wood. — Height o m. 105 mill. — Tomb of Amenophis II, grande salle, section 4.

Single crown (Amon's crown) painted with red, yellow, green and blue stripes. Twisted rams' horns and ears. Wig and horns, black. Face, yellow. Eyebrows, eyelashes

[1] See n°s 5059 and 5143.

and iris, black. Whith of eye, white. Crown and head of one piece. Head fastened to post like n° 5059. Only one horn preserved. Horns inserted in holes.

Bibl. : *Journal d'entrée du Musée*, n° 32617 *B*; Daressy, *Fouilles*, n° 5158.

5061. Head of rudder similar to n° 5059. — Wood. — Height 0 m. 085 mill. — With n° 5060.

Double crown without horns. Yellow face, with black eyebrows, eyelashes and iris. Crown of Lower Egypt, yellow; crown of Upper Egypt, white. Of one piece. Head was fastened to post like n° 5059.

Bibl. : *Journal d'entrée du Musée*, n° 32617 *C*; Daressy, *Fouilles*, n° 5157.

5062. Part of a cabin from the model of a ship. — Wood. — Height 0 m. 165 mill., wide 0 m. 175 mill., length 0 m. 322 mill. — Tomb of Amenophis II, Thebes, 1898, grande salle, section 4.

On end, a rectangular hollow, about 0 m. 012 mill. deep, in which something was set. On each side short distance from end a space similar to a doorway and after an intervening panel, a second similar space on each side. Some object was originally glued in each of these spaces.

Coloring and ornamentation : Scroll-pattern with block border in red, yellow, blue, light green and white. Black outlines.

Technique : Piece over doors (?) pegged on. Strips are glued to underside of this piece. The two sides overlap the end piece, which bears two tongues on each side fitting in holes in ends of sides. Two pegs, one on each side, were also used to fasten side to end. The object which was set into end was pegged on. The whole was pegged to deck. Covered, outside, with layer of plaster before painting.

Preservation : Lower part on one side broken off. The second panel on each side is detached.

Bibl. : *Journal d'entrée du Musée*, n° 32616; Daressy, *Fouilles*, n° 5089.

5063. Piece from the side of a cabin, from the model of a ship[1]. — Wood. — Length 0 m. 27 cent., width 0 m. 085 mill. — Tomb of Amenophis II, grande salle, section 4.

Painted with scroll-pattern like n° 5062, in the same colors; block pattern on margin like n° 5062, in black, red, green, yellow, black, etc. (in this order). Corner, black stripe.

Bibl. : *Journal d'entrée du Musée*, n° 32616; Daressy, *Fouilles*, n° 5091.

(1) See n° 5067.

5064. Piece from side of cabin from model of ship. — Wood. — Length 0 m. 20 cent., wide 0 m. 05 cent. — With n° 5063.

Scroll-pattern similar to n° 5062 in the same colors. The dots in the centers of the rosettes, omitted. Margin not preserved.

Bibl. : *Journal d'entrée du Musée*, n° 32616; Daressy, *Fouilles*, n° 5091.

5065. End of a cabin from model of ship. — Wood. — Height 0 m. 132 mill., length 0 m. 127 mill., width 0 m. 135 mill. — With n° 5063, also section 1 (? 2 ?).

End and both sides as far as the first spaces (doorways?) on each side. No indication that anything was fastened in these spaces. No roof.

Coloring and ornamentation : Both end and sides painted with scroll and block pattern similar to n° 5062. The red spaces between the scrolls are replaced by brown and reddish brown and also the dots in the rosettes are yellow instead of red. Up and down the sides of the spaces between the panels (doorways?) beyond the block border, yellow.

Technique : One piece even to the strips over doorways; corners solid. Inside, roughly chiseled out. Layer of plaster outside before painting.

Preservation : Piece gone out of middle of end, separating it into two pieces. Bottom broken off.

Bibl. : *Journal d'entrée du Musée*, n°s 32567 *A* and 32616; Daressy, *Fouilles*, n° 5090.

5066. Small piece from the side of a cabin. — Wood. — Length 0 m. 10 cent. — Tomb of Amenophis II, grande salle, section 4, 1898.

Like n° 5065, with side of doorway yellow.

Bibl. : *Journal d'entrée du Musée*, n° 32616.

5067. Piece from side of cabin, from model of ship[1]. — Wood. — Length 0 m. 335 mill., width 0 m. 05 cent. — With n° 5062.

Upper part, with *three* windows painted on. Painted with scroll pattern like n° 5062 and with red, blue, green, brownish yellow, white and black. Windows are crossed with red lines. On left side, side of doorway has black border.

Bibl. : *Journal d'entrée du Musée*, n° 32616; Daressy, *Fouilles*, n° 5091.

[1] N° 5070 joins on to the underside of n° 5067, left end. And n° 5063 belongs perhaps on right end of same side of this cabin.

5068. Small piece from the cabin of the model of a ship. — Wood. — Length o m. 15 cent. — Tomb of Amenophis II, grande salle, section 1 (? 2 ?), 1898.

From side, without margin. Scroll pattern like n° 5065.

BIBL. : *Journal d'entrée du Musée*, n° 32567 *B*; DARESSY, *Fouilles*, n° 5090.

5069. Piece from end of cabin, from model of ship. — Wood. — Height o m. 107 mill., width o m. 148 mill., thick o m. 025 mill. — With n° 5066.

Above, on left, small fragment of side. Coloring, ornamentation and technique like n° 5065. Border along top, broader.

BIBL. : *Journal d'entrée du Musée*, n° 32616; DARESSY, *Fouilles*, n° 5092.

5070. Piece from side of cabin, from model of ship[1]. — Wood. — Length o m. 175 mill., width o m. 07 cent. — Tomb of Amenophis II, grande salle, section 2, 1898.

Scroll pattern like n° 5062 but with brown spaces between the scrolls instead of the red. Dots in rosettes have black outlines. Block-pattern as border and beyond (on side of doorway) black vertical stripe (where n° 5065 has yellow).

BIBL. : *Journal d'entrée du Musée*, n° 32361 *B*; DARESSY, *Fouilles*, n° 5091.

5071. Corner of cabin, from model of ship. — Wood. — Length o m. 173 mill., height o m. 085 mill., width o m. 065 mill. — With n° 5070.

Part of end and part of side with door (?). Painted with scroll and block pattern. Frame of door (?), black. Edge to left of door also black (where n° 5065 has yellow). On the end, the brown space between scrolls is replaced by red. Peg in top, just above right end of door. End, thin; side, thinner.

BIBL. : *Journal d'entrée du Musée*, n° 32361 *A*; DARESSY, *Fouilles*, n° 5092.

5072. Corner of cabin, from model of ship. — Wood. — Length o m. 156 mill., height o m. 093 mill., width o m. 054 mill. — Tomb of Amenophis II, section 4.

Similar to n° 5071. Edge of hollow on side, indicating door (n° 5074), sharply cut. Peg hole above left of door. Top and bottom, broken away. End very roughly painted, without scrolls (?).

BIBL. : *Journal d'entrée du Musée*, n° 32616.

[1] See n° 5067.

5073. Corner of cabin, from model of ship. — Wood. — Length o m. o56 mill., height o m. 145 mill., width o m. 027 mill. — With n° 5072.

With side of a door space. Side of door space, black. End of cabin white. Side, scroll and block pattern like n° 5062. One piece, like n° 5065. Technique like n° 5065. Left hand corner.

Bibl. : *Journal d'entrée du Musée*, n° 32616; Daressy, *Fouilles*, n° 5091.

5074. Corner from cabin, from model of ship. — Wood. — Length o m. o52 mill., height o m. o63 mill., width o m. o37 mill. — With n° 5072.

Right hand corner. Similar to n° 5073 but distance between end and edge of door space shorter. Scroll-pattern omitted. End, white like n° 5073 and edge of door space also black.

Bibl. : *Journal d'entrée du Musée*, n° 32616; Daressy, *Fouilles*, n° 5091.

5075. Side from box or cabin, from model of ship. — Wood. — Length o m. 108 mill., width o m. o52 mill., thick o m. 007 mill. — Tomb of Amenophis II, grande salle, section 4.

Ground color, red, also inside and on edges. Outside, three fields enclosed above and on each side by yellow stripes. Pegged to deck by two pegs in lower edge. Pegged to some other piece by two pegs through left end. Right end apparently not attached. Thus the box or cabin must have been open in front and on top.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5054.

5076. Side from box or cabin, from model of ship. — Wood. — Length o m. 105 mill., width o m. o53 mill. — Tomb of Amenophis II, grande salle, section 4.

Like n° 5075.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5053.

5077. Side from box or cabin, from model of ship. — Wood. — Length o m. 109 mill., width o m. o55 mill. — With n° 5076.

Like n° 5075.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5062.

5078. Side from box or cabin, from model of ship. — Wood. — Length 0 m. 098 mill., width 0 m. 053 mill. — With n° 5076.

Similar to n° 5075, but with the two pegs in right end instead of left. Lower right corner broken off.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5054.

5079. Side of box or cabin, from model of ship[1]. — Wood. — Length 0 m. 124 mill., width 0 m. 06 cent. — With n° 5076.

Inside, four white rectangles inclosed by red stripes. Outside four fields separated and enclosed by block pattern, containing sign and sign in alternate fields. The inside of the left end shows an impression made by glueing the board to the end of another board or to a stick. Thin coat of plaster laid on before painting. Fastened to deck by two pegs in lower edge.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5034.

5080. Side of box or cabin, from model of ship[2]. — Wood. — Length 0 m. 124 mill., width 0 m. 052 mill. — With n° 5076.

Inside, red. Outside like n° 5079, but omitting red stripe along the bottom. A sign in the first field on right. Left edge shows traces of having been glued to another board. Two pegs in lower edge.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5051.

5081. Side of box or cabin, from model of ship. — Wood. — Length 0 m. 116 mill., width 0 m. 041 mill. — With n° 5076.

Just like n° 5079, except that red stripe along bottom of outside is omitted. Upper part split off.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5039.

5082. Side from box or cabin, from model of ship[3]. — Wood. — Length 0 m. 146 mill., width 0 m. 035 mill. — Tomb of Amenophis II, grande salle, section 4, 1898.

So far as preserved, like n° 5079, outside. Inside, red. Lower half split off. No indication of having been joined to anything else except possibly glue mark from cross bar on left edge.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5036.

(1) Belonging to and glued on n° 5164.
(2) Belonging to and glued on n° 5166.
(3) Belonging to and glued on n° 5167.

5083. Side from box or cabin, from model of ship. — Wood. — Length o m. 145 mill., width o m. 06 cent. — With n° 5082.

Like n° 5079. First field on right contains sign. Right end, inside, marks of having been glued on. Upper part split off and glued on. Pattern at base of fields, slightly different.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5071.

5084. Side from box or cabin, from model of ship[1]. — Wood. — Length o m. 116 mill., width o m. 045 mill. — With n° 5082.

Similar to n° 5079. No black outlines. Red stripe along bottom wanting. At base of each field, the pattern is in red, white and blue instead of red, white and black. First field on right contains sign. Glue marks on inside of right end. Two pegs in bottom. Much broken and glued together.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5039.

5085. Side from box or cabin, from model of ship. — Wood. — Length o m. 162 mill., width o m. 05 cent. — With n° 5082.

Inside, red. Outside, similar to n° 5079 but with solid white blocks at base of fields instead of pattern in red white and black. First field on right has a sign. No marks of gluing on either end. Two pegs in bottom edge.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5035.

5086. Side from box or cabin, from model of ship. — Wood. — Length o m. 125 mill., width o m. 037 mill. — With n° 5082.

Inside, red. Outside, three fields separated and surmounted by stripes in block pattern like n° 5079 but without black outlines. In middle field two signs; in each of the other two, two signs. Signs extend to lower edge of side, no pattern underneath. Two indentations (for pegs?) in right end. Two pegs in lower edge.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5077.

5087. Side from box or cabin, from model of ship. — Wood. — Length o m. 117 mill., width o m. 035 mill. — With n° 5082.

Like n° 5086. Upper part split off. Two indentations, in left end instead of right end.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5078.

[1] Belonging to and glued on n° 5168.

5088. Side from box or cabin, from model of ship. — Wood. — Length 0 m. 108 mill., width 0 m. 04 cent. — Tomb of Amenophis II, grande salle, section 4.

Inside, white. Outside like n° 5086. Two indentations in right edge and two peg holes in lower edge, like n° 5086. Left end broken off.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5077.

5089. Side from box or cabin, from model of ship. — Wood. — Length 0 m. 12 cent., width 0 m. 07 cent. — With n° 5088.

Inside, three broad white vertical stripes separated by narrow red stripes; narrow red stripe along right end. Edges, red. Outside, three solid red fields enclosed above and on the two sides by yellow stripes and separated by yellow stripes. Inside of right end (left when seen from inside) traces of some object having been glued on. Two pegs in lower edge.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5055.

5090. Side from box or cabin, from model of ship [1]. — Wood. — Length 0 m. 129 mill., width 0 m. 065 mill. — With n° 5088.

Painted like n° 5089. Right end and lower edge, two peg-holes. Very narrow glue-mark along inside of right edge.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5063.

5091. Side from box or cabin, from model of ship [2]. — Wood. — Length 0 m. 124 mill., width 0 m. 062 mill. — With n° 5088.

Painted like n° 5089. Two peg-holes through right end, and two in lower edge. One slanting peg through upper part of left end. Glue-mark along inside of left end.

Bibl. : *Journal d'entrée du Musée*, n° 32623; Daressy, *Fouilles*, n° 5063.

5092. Side from box or cabin, from model of ship [3]. — Wood. — Length 0 m. 106 mill., width 0 m. 06 cent. — With n° 5088.

Inside, white with four vertical red stripes (leaving five white spaces). Edges, red. Outside, four fields, surrounded by block border like n° 5079; but without black

[1] Belongs with n° 5091 to n° 5172.
[2] Belongs with n° 5090 to n° 5172.
[3] Belongs with n° 5093 to n° 5173.

outlines around blocks; red, white and black pattern beneath each field; red stripe along bottom. In each field, figure of a god (Amon), holding in left hand a staff, right arm raised, brandishing a spear. Left end, two indentations in edge, one of them filled with wood, and one slender peg. Inside of left edge, glue-mark.

BIBL. : *Journal d'entrée du Musée*, n° 32623; DARESSY, *Fouilles*, n° 5037.

5093. Side from box or cabin, from model of ship[1]. — Wood. — Length 0 m. 105 mill., width 0 m. 058 mill. — Tomb of Amenophis II, grande salle, section 4.

Like n° 5092 but reversed; figures facing left; filled indentations, peg and glue-mark at right end. Black lines confined to base of fields.

BIBL. : *Journal d'entrée du Musée*, n° 32623; DARESSY, *Fouilles*, n° 5037.

5094. Side from box or cabin, from model of ship. — Wood. — Length 0 m. 116 mill., width 0 m. 064 mill. — With n° 5093.

Like n° 5093, but indentations in left end. No peg, and no glue-marks on either end. Two pegs in lower edge. Split in two and glued.

BIBL. : *Journal d'entrée du Musée*, n° 32623; DARESSY, *Fouilles*, n° 5052.

5095. Side from box or cabin, from model of ship. — Wood. — Length 0 m. 113 mill., width 0 m. 064 mill. — With n° 5093.

Like n° 5092, but with two indentations in right end. Two pegs in lower edge. No other pegs; no glue-marks.

BIBL. : *Journal d'entrée du Musée*, n° 32623; DARESSY, *Fouilles*, n° 5052.

5096. Side from box or cabin, from model of ship. — Wood. — Length 0 m. 195 mill., width 0 m. 068 mill. — With n° 5093.

Inside, red. Outside, four fields containing figures similar to n° 5092, surrounded by block pattern exactly like n° 5079. Figures, painted in, blue, yellow, white and blue-green. Ends (edges), brownish yellow. Three pegs in lower edge. Upper part split off.

BIBL. : *Journal d'entrée du Musée*, n° 32623; DARESSY, *Fouilles*, n° 5066.

[1] Belongs with n° 5092 to n° 5173.

5097. Side from box or cabin, from model of ship. — Wood. — Length o m. 262 mill., width o m. 06 cent., thick o m. 013 mill. — Tomb of Amenophis II, grande salle, section 1 (? 2 ?).

Inside, yellow. Outside, five fields with standing figures similar to n° 5092; the fields are separated by block-pattern stripes like the block-pattern stripes above on n° 5079 but with incised lines instead of black lines. The whole is then enclosed by a similar border. The fields are hollowed out and the figures are in relief. Painted like n° 5096. Hanging down behind each figure, a tail. Upper half, split off. Two pegs in lower edge. Inside of left end, glue-mark.

Bibl. : *Journal d'entrée du Musée*, n° 32568 *A*; Daressy, *Fouilles*, n° 5049.

5098. Side from box or cabin, from model of ship. — Wood. — Length o m. 255 mill., width o m. 055 mill., thick o m. 01 cent. — With n° 5097.

Inside, yellow over red. Outside, like n° 5097; only four fields preserved. Lower half broken off. Upper part of figures; hawk's head with solar disc and feathers. Inside of left end, glue-mark.

Bibl. : *Journal d'entrée du Musée*, n° 32577 *B*; Daressy, *Fouilles*, n° 5064.

5099. Side from box or cabin, from model of ship. — Wood. — Length o m. 15 cent., width o m. 063 mill. — With n° 5097.

Inside, red. Outside, like n° 5079 but with five fields. First field on right, has a sign. Two indentations in left end. Two pegs, in lower edge. Badly cracked.

Bibl. : *Journal d'entrée du Musée*, n° 32577 *C*; Daressy, *Fouilles*, n° 5069.

5100. Side from box or cabin, from model of ship. — Wood. — Length o m. 151 mill., width o m. 061 mill. — With n° 5097.

Inside, red. Outside, similar to n° 5079 but with five fields the first of which has sign. The red, white and black pattern at base of fields, is slightly different. Two indentations in right end. Two pegs in lower edge.

Bibl. : *Journal d'entrée du Musée*, n° 32568 *B*; Daressy, *Fouilles*, n° 5060.

5101. Side from box or cabin, from model of ship. — Wood. — Length o m. 129 mill., width o m. 068 mill. — With n° 5097.

Inside, red. Outside, like n° 5083, but without black lines in block border. Two slanting pegs through left end. Two pegs in lower edge.

Bibl. : *Journal d'entrée du Musée*, n° 32568 *C*; Daressy, *Fouilles*, n° 5067.

5102. Side from box or cabin, from model of ship. — Wood. — Length o m. 118 mill., width o m. 065 mill. — With n° 5097.

Inside and edges, yellow. Outside above, projecting hollow cornice; lower left corner cut off. Not a perfect rectangle; parallelogram with shorter diagonal running from lower left corner to upper right [1]. Curving hollow of cornice marked with vertical stripes on yellow back-ground, blue, red, blue, green, blue, red, etc. Central field surrounded by block border like that above on n° 5079, and containing first , then a human headed sphinx trampling on a negro, the goddess Ma'at, spreading out her wings over the signs and , all on yellow back-ground. Along bottom, a red stripe. Lower edge and edges of both ends show glue-marks.

Bibl. : *Journal d'entrée du Musée*, n° 32577 *D*; Daressy, *Fouilles*, n° 5081.

5103. Side from box or cabin, like n°s 5097-98. — Wood. — Length o m. 263 mill., width o m. 108 mill. — With n° 5097.

Feathers marked with black lines. Two pegs in lower edge. Two peg holes in left edge. Glue-mark along inside of right edge. Upper edge rounded. Split in two and glued.

Bibl. : *Journal d'entrée du Musée*, n° 32577 *E*; Daressy, *Fouilles*, n° 5049.

5104. Rudder-post from model of ship. — Wood. — Height o m. 13 cent., width o m. 019 mill. — Tomb of Amenophis II, grande salle, section 4.

Rectangular stick, growing broader towards top. Inside of top, hollowed out to receive round stem of rudder. On each side of top, a square peg. Top, red. Back, red over yellow. Front and edges, blue, red and green bands or blocks. Base bears marks of having been glued in a hole like n° 4946.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5104.

5105. Rudder-post from model of ship. — Wood. — Height o m. 145 mill. — With n° 5104.

Like n° 5104. Peg on right side broken off. Lower end sharpened.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5105.

5106. Rudder-post from model of ship. — Wood. — Height o m. 184 mill. — With n° 5104.

Like n° 5104, but without black outlines to blocks of color. Right peg, broken off. Lower end, broken off.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5106.

[1] Stood on rising bow of ship?

5107. Rudder-post from model of ship. — Wood. — Height 0 m. 207 mill., width 0 m. 033 mill. — With n° 5104.

Similar to n° 5104; much broader above, more distinctly wedge shaped; hollow in top, much deeper; edges and back, yellow.

BIBL. : *Journal d'entrée du Musée*, n° 32622; DARESSY, *Fouilles*, n° 4944.

5108. Rudder-post from model of ship. — Wood. — Height 0 m. 159 mill. — With n° 5104.

Similar to n° 5104. Back, yellow.

BIBL. : *Journal d'entrée du Musée*, n° 32622; DARESSY, *Fouilles*, n° 5100.

5109. Lower part of rudder-post. — Wood. — Height 0 m. 115 mill. — With n° 5104.

Similar to n° 5104.

BIBL. : *Journal d'entrée du Musée*, n° 32622; DARESSY, *Fouilles*, n° 5109.

5110. Rudder-post from model of ship. — Wood. — Height 0 m. 148 mill. — With n° 5104.

Similar to n° 5104; more distinctly wedge-shaped. Peg hole through [1] top.

BIBL. : *Journal d'entrée du Musée*, n° 32622; DARESSY, *Fouilles*, n° 5110.

5111. Rudder-post from model of ship. — Wood. — Height 0 m. 143 mill. — With n° 5104.

Similar to n° 5104. Top projects slightly on each side forming a kind of head. Peg through the top similar to n° 5110. On right of base, a peg-like projection to rest in hole in deck.

BIBL. : *Journal d'entrée du Musée*, n° 32622; DARESSY, *Fouilles*, n° 5111.

5112. Rudder-post from model of ship. — Wood. — Height 0 m. 135 mill. — With n° 5104.

Painted like n° 5104. Peg through top like n° 5110. Head projecting over front and two sides. Bottom broken off.

BIBL. : *Journal d'entrée du Musée*, n° 32622; DARESSY, *Fouilles*, n° 5112.

[1] See n° 5142.

5113. Rudder-post from model of ship. — Wood. — Height 0 m. 168 mill. — With n° 5104.

Painted like n° 5104; bands have black outlines. Head like n° 5111 without peg. Bottom like n° 5104.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5113.

5114. Rudder-post from model of ship. — Wood. — Height 0 m. 15 cent. — With n° 5104.

Painted like n° 5104. Head like n° 5111 without peg. Bottom broken off.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5114.

5115. Rudder-post from model of ship. — Wood. — Height 0 m. 12 cent. — With n° 5104.

Like n° 5114. Base and right side of head broken off. Sides (edges), yellow instead of red like the back or instead of having bands like front.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5115.

5116. Rudder-post from model of ship. — Wood. — Height 0 m. 13 cent. — With n° 5104.

Like n° 5114, with peg through head. Base and right side of head, broken off.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5116.

5117. Rudder-post from model of ship. — Wood. — Height 0 m. 122 mill. — With n° 5104.

Form like n° 5107, with peg holes on sides. Painted with stripes like n° 5104; but of the three narrow stripes, the middle one is blue (blue green) while the two outer ones are red. Black outlines.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5016.

5118. Rudder-post from model of ship. — Wood. — Height 0 m. 195 mill. — With n° 5104.

Like n° 5117, but without peg holes on sides. Bottom broken off.

Bibl. : *Journal d'entrée du Musée*, n° 32622; Daressy, *Fouilles*, n° 5058.

5119. Rudder-post from model of ship. — Wood. — Height 0 m. 243 mill. — With n° 5104.

Form like n° 5110 (peg through top). Top, red. Then alternate white and yellow stripes, broad, separated by red lines. Back, red. Bottom, sharpened.

Bibl. : *Journal d'entrée du Musée,* n° 32622; Daressy, *Fouilles,* n° 5098.

5120. Rudder-post, model of ship. — Wood. — Height 0 m. 192 mill. — With n° 5104.

Form like n° 5104. Pegs lost out of holes on sides. Bottom sharpened. Top, red; rest, yellow.

Bibl. : *Journal d'entrée du Musée,* n° 32622; Daressy, *Fouilles,* n° 5095.

5121. Rudder-post from model of ship. — Wood. — Height 0 m. 215 mill. — With n° 5104.

Wedge form with head projecting slightly over the two sides. Head, red; rest, yellow.

Bibl. : *Journal d'entrée du Musée,* n° 32622; Daressy, *Fouilles,* n° 5107.

5122. Rest for rudder, from model of ship. — Wood. — Length 0 m. 18 cent. — With n° 5104.

Right end, like one end of n° 5051. Left end, under edge cut off obliquely. Two peg holes. Painted red. Underside where it rested on deck, unpainted.

Bibl. : *Journal d'entrée du Musée,* n° 32622; Daressy, *Fouilles,* n° 5128.

5123. Rest for rudder, from model of ship. — Wood. — Length 0 m. 184 mill. — With n° 5104.

Similar to n° 5122. Left end, underside, not cut off; but painted yellow. Unpainted part on underside, bears layer of glue. Right peg projects above upper surface of rest, as if for holding rope for fastening rudder.

Bibl. : *Journal d'entrée du Musée,* n° 32622; Daressy, *Fouilles,* n° 5127.

5124. Rest for rudder, from model of ship. — Wood. — Length 0 m. 198 mill. — With n° 5104.

Similar to n° 5123. Right end, both corners rounded. Three pegs, one of which (now lost) stood up above upper surface like right peg on n° 5123. Underside of ends, white.

Bibl. : *Journal d'entrée du Musée,* n° 32622; Daressy, *Fouilles,* n° 5131.

5125. Rest for rudder, from model of ship. — Wood. — Length o m. 16 cent. — With n° 5104.

Right end like n° 5122. Left end, front corner cut out. Upperside, front, yellow; back, red. Underside like n° 5122. Single peg, projecting above upper surface, like right peg on n° 5123, with bit of string wrapped around it.

Bibl. : *Journal d'entrée du Musée*, n° 32629; Daressy, *Fouilles*, n° 5126.

5126. Cabin from the model of a ship. — Wood. — Length o m. 205 mill., width o m. 155 mill., o m. 10 cent., height o m. 105 mill. — Tomb of Amenophis II, « un escalier, entre les deux salles, deux couloirs », 1898.

Solid block. Front broader than back. Bottom, slightly slanting to fit deck. Painted white. On front, left side, a door painted on, yellow with red frame. Underside, three pegs for fastening to deck.

Bibl. : *Journal d'entrée du Musée*, n° 32817; Daressy, *Fouilles*, n° 5089.

5127. Blade of rudder from the model of a ship. — Wood. — Length o m. 335 mill. — Tomb of Thothmes III, « tas 9 », 1898.

Similar to n° 5050. Of three pieces, stem running to tip and two sides, pegged together with two pegs on each side. Covered with plaster and smoothed.

Bibl. : *Journal d'entrée du Musée*, n° 32980; Daressy, *Fouilles*, n° 5182.

5128. Blade of rudder from the model of a ship. — Wood. — Length o m. 39 cent., length blade o m. 229 mill. — Tomb of Thothmes III, « tas 24 », 1898.

Rounded end. Curving faces. Painted white (very thin coat of plaster). Part of stern also preserved.

Bibl. : *Journal d'entrée du Musée*, n° 32969; Daressy, *Fouilles*, n° 5183.

5129. Tip of mast, from model of ship. — Wood. — Length o m. 135 mill. — Thebes, Tomb of Thothmes III, 1898.

On each side, four rough eyes, for fastening ropes. Painted red and yellow.

Bibl. : Daressy, *Fouilles*, n° 5147.

5130. Side of a cabin, from model of ship. — Wood. — Length o m. 19 cent., height o m. 085 mill. — Thebes, Tomb of Thothmes III, 1898.

Part of side, with side of doorway. Painted in red, blue, green, white, black and yellow. One peg in lower edge and one in upper.

Bibl. : Daressy, *Fouilles*, n° 5205.

5131. Cabin from the model of a ship. — Wood. — Length 0 m. 298 mill., width 0 m. 06 cent., 0 m. 079 mill., height 0 m. 075 mill. — Tomb of Thothmes III. 1898.

Front end broader than rear end. The whole is curved to fit slope of deck. A cornice runs around the top. Door in front end. Window and door in each side. On left side of each door: a small knob. On top, two stout pegs and marks of rectangular object (smaller than roof) which rested on roof.

Coloring and Ornamentation : Sides in same pattern as n° 5130 and in same colors except that the yellow square with white dot of n° 5130 is replaced by white square in n° 5131. Cornice, blue, red, blue, green, blue, red, etc. (in this order) vertical stripes on yellow back ground. Window, brownish yellow. Door frame, gilt.

Technique : One piece. Gilt is gold foil, laid on. Covered with layer of plaster before painting. Pegged to deck.

Preservation : Front, left corner and back, right corner broken.

Bibl. : Daressy, *Fouilles*, n° 5204.

5132. Rudder-post from model of ship. — Wood. — Height 0 m. 097 mill. — Tomb of Amenophis II, section 4.

Form like n° 5104; no pegs on side, but a hole slanting through each back corner. Bottom broken off.

Bibl. : Daressy, *Fouilles*, n° 5105.

5133. Rudder-post from model of ship. — Wood. — Height 0 m. 245 mill. — Tomb of Amenophis II, section 6.

Like n° 5119. Left side split off.

Bibl. : *Journal d'entrée du Musée*, n° 32622 : Daressy, *Fouilles*, n° 5098.

5134. Rudder-post from model of ship. — Wood. — Height 0 m. 225 mill. — Tomb of Amenophis II, section 6.

Like n° 5139, but narrower. Bottom broken off.

Bibl. : Daressy, *Fouilles*, n° 5106.

5135. Rudder-post from model of ship. — Wood. — Height 0 m. 25 cent., length 0 m. 32 cent. — Tomb of Amenophis II, section 4.

With cross-piece from deck through which the post passsed. Rudder-post like n° 5104. Cross-piece, red. Rudder-post, set in, leaning outwards, and made tight with

wooden wedges. Cross-piece, pegged to deck by two pegs. Right end of cross-piece, front split off. Lower end of left rudder-post still in the hole in left end.

Bibl. : Daressy, *Fouilles*, n° 5094.

5136. Blade and lower part of stem of rudder from model of ship. — Wood. — Length 0 m. 295 mill. — Tomb of Amenophis II, section 6, 1898.

Blade, shaped like segment of a fan; the stem runs out to end but is flattened. Two holes through blade on each side. Both faces and both sides of blade are alike. Painted in red, green, blue, yellow, white and black.

Bibl. : Daressy, *Fouilles*, n° 5168.

5137. Blade of rudder, from model of ship. — Wood. — Length 0 m. 157 mill. — With n° 5136.

Like n° 5136. Rosettes a trifle different. Only two holes, one on each side of stem. Four pieces glued together.

Bibl. : Daressy, *Fouilles*, n° 5169.

5138. One side of blade of rudder, from model of ship. — Wood. — Length 0 m. 22 cent. — With n° 5136.

Was fastened to stem by two pegs; and is pierced by a hole like n°s 5136-7. Rosettes slightly different. Rim of red iris, black. Otherwise like n° 5136.

Bibl. : Daressy, *Fouilles*, n° 5173.

5139. Blade of rudder from model of ship. — Wood. — Length 0 m. 182 mill. — With n° 5136.

Wedge shaped. Stem disappears in blade. Painted in red, green, yellow, blue and black. No holes through blade.

Bibl. : Daressy, *Fouilles*, n° 5174.

5140. Blade of rudder from model of ship. — Wood. — Length 0 m. 283 mill., length blade 0 m. 188 mill. — With n° 5136.

With part of stem. Like n° 5137. Painted in green, red, yellow, blue, white and black. Two pieces glued together.

Bibl. : Daressy, *Fouilles*, n° 5171.

5141. Blade and part of stem of rudder, from model of ship. — Wood. — Length o m. 28 cent., length blade o m. 148 mill. — Tomb of Amenophis II, section 6.

Like n° 5136. Stem broken off at slanting hole through which the handle passed.

Bibl. : Daressy, *Fouilles*, n° 5170.

5142. End of stem of rudder, from model of ship. — Wood. — Length o m. 278 mill. — With n° 5141.

Round, and slightly tapering towards end. Round hole through end, by which it was fastened by a peg to rudder-post [1]. Rectangular hole for handle, slanting in same direction as round hole.

Bibl. : Daressy, *Fouilles*, n° 5176.

5143. End of stem of rudder, from model of ship. — Wood. — Length o m. 171 mill. — With n° 5141.

Round, and slightly tapering towards end. Square hole in end [2]. Slanting, round hole with part of handle.

Bibl. : Daressy, *Fouilles*, n° 5163.

5144. Three rough oars, from model of ship. — Wood. — Length n° 1, o m. 18 cent.; n° 2, o m. 22 cent.; n° 3, o m. 265 mill. — With n° 5141.

Long handle; narrow oval blade. End of handle, broken off on n°s 1 and 2. Unpainted.

Bibl. : Daressy, *Fouilles*, n° 5191.

5145. Four oars from model of ship. — Wood. — Length n° 1, o m. 108 mill.; n° 2, o m. 123 mill.; n° 3, o m. 108 mill.; n° 4, o m. 137 mill. — With n° 5141. N° 3, from section 4.

Round handle, narrow blade. Handle continued along back of blade nearly to tip. Blade, red; handle yellow.

Bibl. : Daressy, *Fouilles*, n° 5190.

[1] See n°s 5110, 5112, etc.
[2] See n°s 5060-5061.

5146. Part of spar with rope, from model of ship. — Wood. — Length o m. 19 cent. — Tomb of Amenophis, section 4.

Tapering towards end, round. Notched on opposite sides where the string is tied on. String of two strands.

Bibl. : Daressy, *Fouilles*, n° 5192.

5147. Top of mast, from model of ship. — Wood. — Height o m. 20 cent. — With n° 5141.

The top is slit and holds a thin board with two wooden eyelets on each side; two notches on each side. One half of top broken away. The board is glued on. Mast yellow; eyelets, red.

Bibl. : Daressy, *Fouilles*, n° 5146.

5148. Notched block for fastening mast ropes, like objects on n°s 4944 and 4946. — Wood. — Length o m. 107 mill. — With n° 5141.

Three notches on underside. Fastened to deck by two pegs. Painted red.

Bibl. : Daressy, *Fouilles*, n° 5140.

5149. Notched block like n° 5148, from model of ship. — Wood. — Length o m. 123 mill. — Tomb of Amenophis II, section 6.

Two pegs. Unpainted.

Bibl. : Daressy, *Fouilles*, n° 5139.

5150. Notched block like n° 5148, from model of ship. — Wood. — Length o m. 068 mill. — With n° 5149.

No pegs, glued to deck. Two notches. Two red bands.

Bibl. : Daressy, *Fouilles*, n° 5145.

5151. Pair of rudder-posts from model of ship. — Wood. — Length o m. 273 mill. and o m. 268 mill. — With n° 5149.

Like n° 5053. Peg like projection above which bore hawk's head, now lost[1]. On outside of each, a round hole (o m. 055 mill. and o m. 075 mill., from top). Yellow.

Bibl. : Daressy, *Fouilles*, n° 5137.

[1] N° 5054 may be heads to these.

5152. Hawk's head from rudder-post. — Wood. — Height 0 m. 027 mill. — With n° 5149.

Like n° 5055.

Bibl. : Daressy, *Fouilles*, n° 5161.

5153. Ladder, from model of ship[1]. — Wood. — Length 0 m. 235 mill., width 0 m. 028 mill. — Tomb of Amenophis II, section 4.

Board with notch-like steps on front. Unpainted. Cuts, vertical to length, are sawed.

Bibl. : Daressy, *Fouilles*, n° 5198.

5154. Ladder, from model of ship. — Wood. — Length 0 m. 251 mill., width 0 m. 023 mill. — With n° 5149.

Like n° 5153, but with a projection on upper end. Painted yellow. Glued together cut of two pieces.

Bibl. : Daressy, *Fouilles*, n° 5196.

5155. Ladder, from model of ship. — Wood. — Length 0 m. 237 mill., width 0 m. 022 mill. — With n° 5149.

Upper part, broken off. Like n° 5153, but with a projection on back of lower end. Painted yellow.

Bibl. : Daressy, *Fouilles*, n° 5197.

5156. Flight of steps, from model of ship[2]. — Wood. — Height 0 m. 17 cent., length 0 m. 083 mill., wide 0 m. 043 mill. — Thebes, Tomb of Thothmes III (tas 6).

Back and sides, yellow. Front, white with narrow green border on all edges. Fastened to deck by two pegs. Piece split off of left side.

Bibl. : *Journal d'entrée du Musée*, n° 32285; Daressy, *Fouilles*, n° 5216.

5157. Flight of two steps, from model of ship. — Wood. — Height 0 m. 029 mill., length 0 m. 118 mill., width 0 m. 06 cent. — Thebes, Tomb of Thothmes III.

White; all edges, except on bottom, have green border.

Bibl. : Daressy, *Fouilles*, n° 5216.

(1) For embarking, etc., cf. n° 5156.
(2) For mounting on cabin, cf. n° 5153.

5158. Mallet, from model of ship. — Wood. — Length o m. 125 mill. — With n° 5149.

Short round handle and swelling head of about equal length. Unpainted.

5159. Mallet, from model of ship. — Wood. — Length o m. 131 mill. — Tomb of Amenophis II, section 4.

Similar to n° 5158.

5160. Mallet, from model of ship. — Wood. — Length o m. 102 mill. — Tomb of Amenophis II, section 6.

Similar to n° 5158, but with the end sawed off square. Painted yellow.

5161. Blade of rudder, from model of ship. — Wood. — Length o m. 80 cent., length blade o m. 445 mill. — With n° 5160.

Long and slender, with slightly convex faces. End of blade, round. Technique like n° 5050. One side of end broken off and glued on.

Bibl. : Daressy, *Fouilles*, n° 5181.

5162. Papyrus flower from the bow of a ship. — Wood. — Diameter o m. 145 mill. — Tomb of Amenophis II.

Underside, green with yellow leaves with red lines around the base. Upperside, red with yellow border, and showing traces of having borne *two hawks*, side by side, fastened to flower each by a stout square peg. Flower fastened to stern by tongue and socket, with peg in end of tongue. Badly cracked and front edge broken.

5163. Rudder-rest, from model of ship. — Wood. — Length o m. 165 mill. — Tomb of Amenophis II, section 2.

Like n° 5125. With peg on upper surface, wrapped with bit of string.

Bibl. : Daressy, *Fouilles*, n° 5126.

5164. Platform from bow or stern of model of ship, with box. — Wood. — Length o m. 125 mill., height o m. 082 mill., wide o m. 135 mill. — Tomb of Amenophis II, section 6.

The *platform* consists of a board in form of truncated triangle with projection on each side of smaller end, and with *three supports* on underside, two of which are triangular,

giving the wider end of platform, a slight elevation. The *box* consists of three boards, set on edge on the platform. One side-board is n° 5079; the other is lower half of a board like n° 5079; and the end-board is a narrow, curved board bearing a fork on upper end, and *colored* red, blue green, yellow on front, yellow behind. The triangular piece is on the outside red with white rings decreasing in size towards the end. The platform is yellow. The two triangular pieces on the sides and the two side-boards of the box are pegged to main board by two pegs on each side, the same pegs serving for both upper and lower pieces. The wider end of the platform is possibly also pegged on. The other parts are glued together and the whole glued to deck. Round hole in lower part of front edge of platform.

Bibl. : Daressy, *Fouilles*, n° 5034.

5165. Platform with end of box from bow or stern of model of ship. — Wood. — Length 0 m. 167 mill., height 0 m. 125 mill., width 0 m. 205 mill. — Tomb of Amenophis II, section 6.

Same general form as n° 5164. Instead of three supports giving the broad end an elevation, the main board has a wedge shape. The end is like n° 5164 *d*. Sides, lost. Platform, yellow; underset triangular side on one side, red with white and brown rings decreasing in size towards the narrow end, on the other, red with sign decreasing in size. Projecting ends on small end, of separate piece glued on. End of box also glued on; sides of box were pegged on. The whole was pegged to deck by four pegs.

Bibl. : Daressy, *Fouilles*, n° 5057.

5166. Platform with box from model of ship. — Wood. — Length 0 m. 13 cent., height 0 m. 155 mill., width 0 m. 08 cent. — With n° 5165.

Platform like n° 5165 (5164). The end piece *d* tilted up slightly. The triangular sides, underset, are on one side, red with white rings, and on the other, simply red. One side of box, is n° 5080 and the other side is like it (1st sign on right,). At the small end, these boards were connected by *two slats* (or *bars*), glued to edges of boards. These slats are now missing.

Bibl. : Daressy, *Fouilles*, n° 5051.

5167. Platform with one side of box, from model of ship. — Wood. — Length 0 m. 14 cent., height 0 m. 155 mill., width 0 m. 07 c. — With n° 5165.

Platform, like n° 5164 except that there are no projection on sides of smaller end. The front edge is painted red; the rest yellow. The supports on underside are lost. The side-board of the box is n° 5082 with red back but without glue marks

on inside of either end. The other side-board is missing. The two were possibly joined by a bar across end glued to edges.

Bibl. : Daressy, *Fouilles*, n° 5036.

5168. Platform with part of box, from model of ship. — Wood. — Length 0 m. 125 mill., height 0 m. 15 cent., width 0 m. 08 cent. — With n° 5165.

Platform, like n° 5166 in form and coloring. The side-board is n° 5084; the opposite board and an end piece similar to n° 5164, are missing. Glued to deck.

Bibl. : Daressy, *Fouilles*, n° 5039.

5169. Platform with part of end of box, from bow or stern of model of ship. — Wood. — Length 0 m. 125 mill., height 0 m. 13 cent., wide 0 m. 197 mill. — Tomb of Amenophis II, sections 4 and 6.

Platform like n° 5165 in form. Yellow; underset triangular sides, blue. Box consisted of two side boards, pegged on, and an end piece. End piece, inside yellow; outside, red. The end piece must have had a projection entering the hole *b* in middle of small end of platform; the end piece overlaps the side boards with pegs (two close together) passing through the flange *c* into ends of side boards. The whole pegged to deck by pegs.

Bibl. : Daressy, *Fouilles*, n° 5056.

5170. Platform from bow or stern of model of ship. — Wood. — Length 0 m. 126 mill., height 0 m. 017 mill., width 0 m. 148 mill. — Tomb of Amenophis II, section 6.

Form of truncated triangle, seen from above; from the side, wedge-shaped (not underset). Edges, red; middle, white. Traces of two boards of box fastened each by two pegs. In middle, end of flat post (rudder-post?) in oblong hole. The whole fastened to deck, by two peg holes.

Bibl. : Daressy, *Fouilles*, n° 5053.

5171. Box from model of ship, from platform on bow or stern. — Wood. — Length 0 m. 147 mill., height 0 m. 055 mill., 0 m. 063 mill. — Tomb of Amenophis II, sections 4, 6 and c 2 s.

Only right side of end preserved, apparently like end of n° 5164. Two side boards similar to n° 5083. The sides overlap end and are fastened to it by two pegs on each side; also fastened to deck by two pegs on each side.

Bibl. : Daressy, *Fouilles*, n°s 5072-5073.

5172. Box from model of ship, from platform on bow or stern[1]. — Wood. — Length 0 m. 127 mill., height 0 m. 12 cent. — Tomb of Amenophis II, section 2.

The end is similar in form to n° 5164 but with a raised band across the top. Fork, edges and front, red; back, white. The sides are n°s 5090 and 5091, respectively. The sides overlap end and are pegged to it by one peg on each side.

Bibl. : Daressy, *Fouilles*, n° 5063.

5173. Box from model of ship, from platform on stern[2]. — Wood. — Length 0 m. 107 mill., height 0 m. 095 mill. — Tomb of Amenophis II, section 6.

End similar to n° 5164 in form but broader with larger fork. Red, all over. The sides are n°s 5092 and 5093. The sides overlap end and are pegged to it by one slender peg on each side.

Bibl. : Daressy, *Fouilles*, n° 5037.

5174. End from box from model of ship. — Wood. — Height 0 m. 083 mill., width 0 m. 028 mill. — Tomb of Amenophis II, section 6, 1898.

Like n° 5164 in form. Red, outside; yellow, inside. Sides overlapped end and were glued to it.

5175. End from box from model of ship. — Wood. — Height 0 m. 103 mill., width 0 m. 036 mill. — Tomb of Amenophis II, c 2 s, 1898.

Narrow curved board, with narrow raised band across top and broad raised strip up the front, terminating in fork. Roughly cut, filled and smooth with plaster, and painted red all over. Glued to overlapping ends of side boards.

Bibl. : Daressy, *Fouilles*, n° 5085.

5176. End of box from model of ship. — Wood. — Height 0 m. 075 mill., width 0 m. 064 mill. — With n° 5174.

Similar to n° 5175 but broader. Band across top broader; fork, broken off. Overlapping end of board on left side was fastened by two pegs; on right side, by one peg.

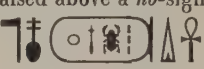
[1] N°s 5090-5091 form the sides to this same box.
[2] N°s 5092-5093 are the sides of this box.

5177. End of box, from model of ship. — Wood. — Height o m. 105 mill., width o m. 08 cent. — With n° 5174.

Similar to n° 5172, but broader, with higher fork and lower band across top. Red, in front; white, behind. Back of sides, flattened.

Bibl. : Daressy, *Fouilles*, n° 5055.

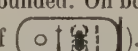
5178. End of box, from model of ship. — Wood. — Height o m. 121 mill., width o m. 068 mill. — Tomb of Amenophis II, grande salle, section 4, 1898.

Curved board with flange on each side and raised band across top of front. Front unpainted. Back, human figure painted in red, white, green, blue and black on yellow; man, sitting on right heel, left knee raised above a *nb*-sign, holding in each hand a *rnpt* sign. On his head, cartouche of  . Below is a red, white and black border.

Overlapped ends of side boards, the edges of which were glued to flange.

Bibl. : *Journal d'entrée du Musée*, n° 32624 *B*; Daressy, *Fouilles*, n° 5083.

5179. End of box, from model of ship. — Wood. — Height o m. 16 cent., width o m. 115 mill, — Tomb of Amenophis II, « dans le couloir avant la deuxième salle », 1898.

In form, like n° 5178. Band across top of front high and rounded. On bottom, sort of peg. Front, yellow. Back, like n° 5178 (cartouche of ). Overlapped ends of boards, the edges of which were pegged to flanges, by two pegs on each side.

Bibl. : *Journal d'entrée du Musée*, n° 32624 *A*; Daressy, *Fouilles*, n° 5082.

5180. End of box from model of ship. — Wood. — Height o m. 17 cent., width o m. 07 cent. — Tomb of Amenophis II, couloir avant la deuxième salle.

In form similar to n° 5164. Red, outside; yellow, inside. Top of fork broken off. Up the front, slightly slanting, a round *staff* or *post*, about same height as fork and bearing peg-like projection on top for fastening some object; below bottom of board, sharpened for insertion in hole in deck; glued to board and painted yellow. The side boards of box overlapped edges of end, to which they were glued and pegged by two pegs on each side.

Bibl. : *Journal d'entrée du Musée*, n° 32322; Daressy, *Fouilles*, n° 5084.

5181. Post with crotch in top, from box from model of ship. — Wood. — Height o m. 195 mill. — Tomb of Amenophis II, section 6.

Glue mark on back at *b*, as if glued to bar connecting ends of sides of box (cf. nos 5166-7). On front a projection or raised band. Bottom broken. Painted white.

Bibl. : Daressy, *Fouilles*, n° 5108.

5182. Pair of triangular supports from underside of platform, from stern (?) of model of ship. — Wood. — Height o m. 045 mill., length o m. 18 cent. — Tomb of Amenophis II, sections 4 and 6.

Outside, red with white *uraeus* in eight folds, winged, holding between wings cartouche of . Pegged to platform by two pegs, to deck by one peg on each side. One of them badly splintered.

Bibl. : Daressy, *Fouilles*, n° 5059.

5183. Pair of triangular supports from underside of platform, from stern (?) of ship. — Wood. — Height o m. 03 cent., length o m. 22 cent. — Tomb of Amenophis II, section 4.

Outside, red with five hawks' heads and five circles all white growing smaller towards sharp angle. Fastened to platform by one and two pegs respectively, to deck by one and two pegs respectively.

Bibl. : Daressy, *Fouilles*, n° 5049.

5184. Cross-bar from end of box, from model of ship. — Wood. — Length o m. 09 cent. — Tomb of Amenophis II.

Round, with ring notched around each end. Just inside of notched ring, a peg in each end which fastened the bar to ends of side boards. Yellow.

Bibl. : Daressy, *Fouilles*, n° 5182.

5185. Cross-bar from box, from model of ship. — Wood. — Length o m. 104 mill. — Tomb of Amenophis II, section 6.

A little way from each end, glue mark and yellow smear where glued to ends of side boards or fastened in notch in ends of side boards. Painted red.

Bibl. : Daressy, *Fouilles*, n° 5183.

5186. Roof of a canopy. — Wood. — Length o m. 245 mill. — Tomb of Amenophis II.

Seen from above, form of a truncated triangle. Broad end curves down. Two pair of holes (one of them for receving columns) at small end; and another pair in middle. Broad end is broken off at corners. Painted yellow. Six pieces.

Bibl. : Daressy, *Fouilles*, n° 5084*a*.

5187. Post of a canopy. — Wood. — Height o m. 56 cent. — Tomb of Amenophis II.

Form of n° 5052 with small block above the capital. Lower half, contains a peg which fitted hole in deck, being glued in.

Bibl. : Daressy, *Fouilles*, n° 5153.

5188. Front cornice from canopy. — Wood. — Length o m. 213 mill. — Tomb of Amenophis II, section 6.

The broad end of a roof like n° 5186 rested on top. Each end was supported by a column like n°s 5052, 5189, 5190. Painted yellow.

5189. Post of a canopy. — Wood. — Height o m. 203 mill. — Tomb of Amenophis II.

Like n° 5052. Lower end sharpened. The back of lower half rested against something. Lower end inserted in hole.

Bibl. : Daressy, *Fouilles*, n° 5088.

5190. Post of canopy. — Wood. — Height o m. 185 mill. — Tomb of Amenophis II.

Like n° 5189.

Bibl. : Daressy, *Fouilles*, n° 5088.

5191. Broad upright post, from model of ship. — Wood. — Height o m. 21 cent., wide o m. 03 cent., thick o m. 014 mill. — Tomb of Amenophis II, section 6.

Hollowed, grooved on inside. Tongue on lower end. Painted red.

Bibl. : Daressy, *Fouilles*, n° 5121.

5192. Side of board with eyelets from top of mast. — Wood. — Height 0 m. 135 mill. — Tomb of Amenophis II.

Cf. n° 5147. Has eight eyelets.

Bibl. : Daressy, *Fouilles*, n° 5149.

5193. Platform from end of model of ship. — Wood. — Length 0 m. 135 mill., width 0 m. 15 cent. — Tomb of Thothmes III.

Solid piece like n° 5165. Rectangular notch in front end. Side walls of box pegged on, two pegs each. Platform pegged to deck by two pegs.

Bibl. : Daressy, *Fouilles*, n° 5206.

5194. Pair of side boards of box from model of ship. — Wood. — Length 0 m. 128 mill., height 0 m. 062 mill. — Tomb of Thothmes III, 1898.

Back, red. Front, three plain red fields surrounded by block border in red, blue, green and yellow. Glue mark inside left end on one, right end on the other. Two peg holes in bottom edge. Covered with plaster outside before painting.

Bibl. : Daressy, *Fouilles*, n° 5207.

5195. Side of box, from model of ship. — Wood. — Length 0 m. 127 mill., height 0 m. 064 mill. — With n° 5194.

Like n° 5194. Instead of glue mark, left end has two square notches.

Bibl. : Daressy, *Fouilles*, n° 5207.

5196. Pair of side boards from box on model of ship. — Wood. — Length 0 m. 14 cent.-0 m. 142 mill., height 0 m. 04 cent.-0 m. 045 mill. — With n° 5194.

Back, red. Front three red fields containing one and two signs, surrounded by block border like n° 5194. The three signs, colored red, blue, green and yellow; there is no red, white and black border at base. One has single notch in right end; the other in left end. Fastened to deck by two pegs. One is burned off at ends.

Bibl. : Daressy, *Fouilles*, n° 5208.

5197. Side of box, from model of ship. — Wood. — Length 0 m. 07 cent., height 0 m. 044 mill. — With n° 5194.

Painted like n° 5090; the red fields on front have black outlines. One notch in right end; two pegs in lower edge. Worm eaten.

Bibl. : Daressy, *Fouilles*, n° 5209.

Catal. du Musée, n° 4798.

5198. Side of box, from model of ship. — Wood. — Length o m. o68 mill., height o m. o36 mill. — With n° 5194.

Like n° 5197, without notch in either end.

Bibl. : Daressy, *Fouilles*, n° 5210.

5199. End of box, from model of ship. — Wood. — Height o m. 143 mill., width o m. 072 mill. — With n° 5194.

Curved board with flange on each side, like n° 5178. Double raised band across top of front. Originally, a stick glued up the front, cf. n° 5200. Fastened to deck by two pegs.

Bibl. : Daressy, *Fouilles*, n° 5211, *A*.

5200. End of box, from model of ship. — Wood. — Height o m. 105 mill., wide o m. 065 mill. — With n° 5194.

Curved board without flanges, and with double raised band like n° 5199. Up the front, flat stick with notch in upper end, tongue on lower end. Tongue broken off. Sides overlapped end and were glued to its edges. Board, red; post, yellow.

Bibl. : Daressy, *Fouilles*, n° 5211, *B*.

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Lucas (A.), *Preservative Materials used by the Ancient Egyptians*, p. xviii.
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[1] No 4861 has paddlers but not paddles. The oars tied along the rail do not belong to this model.

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Quibell (J. E.), *Excavations at Saqqarah*, 1906-1907, p. xiv; *Hierakonpolis*, p. xviii.

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2. Seated on stools (blocks), n° 4806, p. 12; n° 4844, p. 32; n° 4845, p. 33; n° 4846, p. 34; n° 4867, p. 47; n° 4869, p. 48; n° 4872, p. 50 (blocks modern); n° 4913, p. 69.

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Sacrificial, leg of sacrificial animal, n° 4952, p. 105; n°s 4915-4917, p. 71-74.

Sail, n° 4841, p. 29; n° 4890, p. 59; n° 4893, p. 60; n° 4936, p. 94; n° 4948, p. 100; n° 4950, p. 103.

Sail-boats, distinguished from rowing boats, p. III.

Sail-ropes, see *Strings*.

[1] Only the post-hole remains, the steersman appears to have stood in front of it. The arrangement is anomalous and unclear. Possibly the hole *d* was for a rest-piece and the ends of the rudders rested on the canopy. See also n° 4880, p. 52.

Sailors, n° 4802, p. 7; n° 4803, p. 8; n° 4841, p. 30; n° 4861, p. 45; n° 4910, p. 65; n° 4912, p. 69; n° 4948, p. 101; n° 4951, p. 104; n° 4952, p. 105; n° 4955, p. 118. Unattached, n° 4852, p. 40; n° 4853, p. 40; n° 4855, p. 41. Perhaps also, n° 4899, p. 61; nos 4902-4904, p. 62.

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3. See *Chairs*.

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[1] All other models have the steersman indicated by a hole, or peg or plaster.

p. 45; n° 4909, p. 64; n° 4910, p. 65; n° 4912, p. 69; n° 4913, p. 69; n° 4918, p. 77; n° 4948, p. 104; n° 4952, p. 105.

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[1] All other models have the steersman indicated by a hole, or peg or plaster.

[2] No trace of steersman on n° 4811.

[3] See also n° 4952, p. 105.

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5. Type V, funerary bark, p. XXI-XXIV; n° 4811, p. 17; n° 4847, p. 34; n° 4851, p. 38; n° 4915, p. 70; n° 4916, p. 72; n° 4917, p. 73; n° 4925, p. 83; n° 4926, p. 86; n° 4948, p. 100.

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[1] It is not certain whether the sail or the paddlers is a mistake of the restorer.

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II. N° 4801, boat, type II, with rowers, see p. 5. — N° 4802, boat, type II, with sailors, see p. 7.

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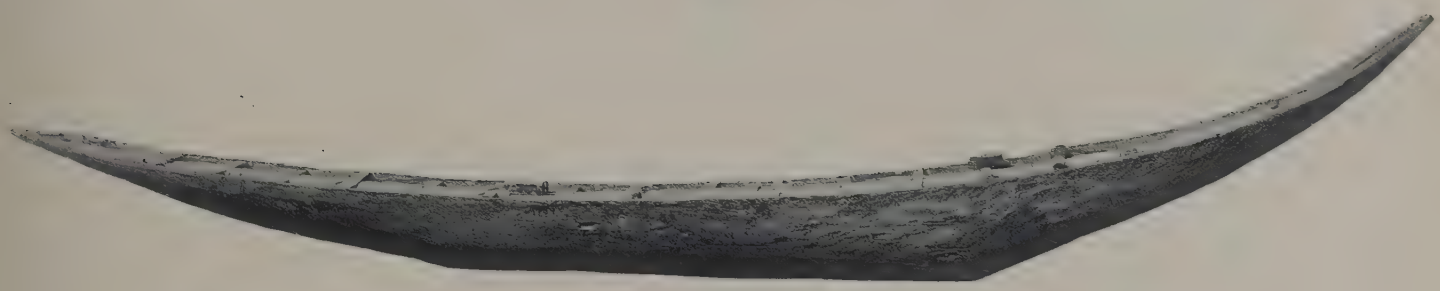

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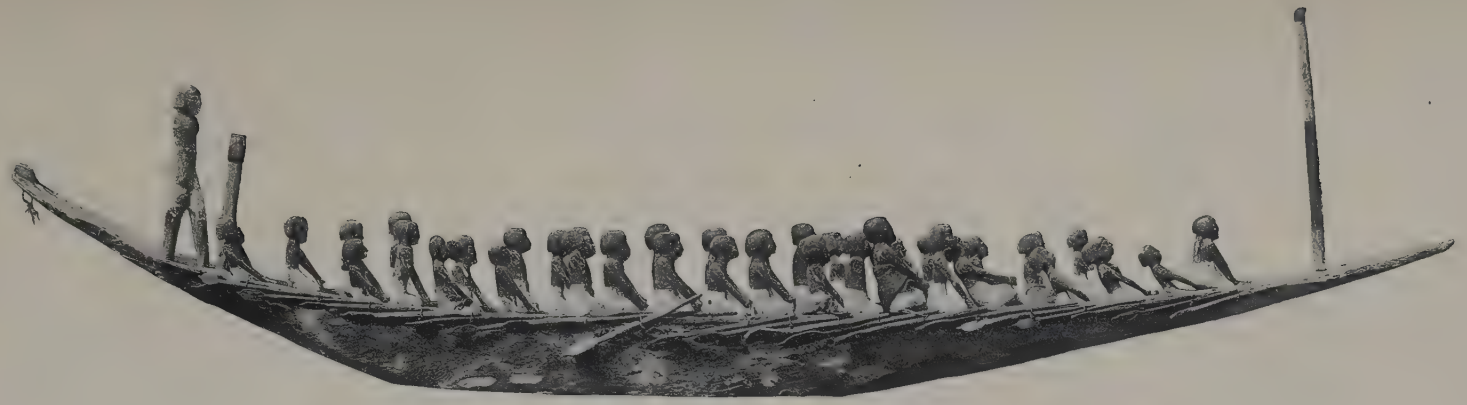

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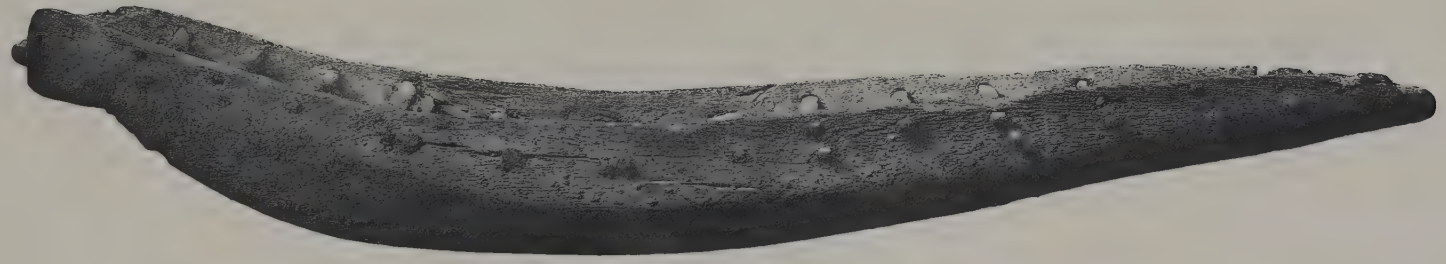

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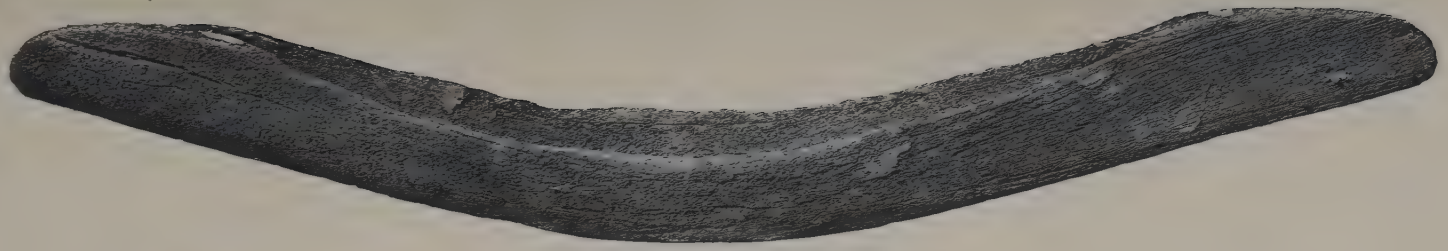

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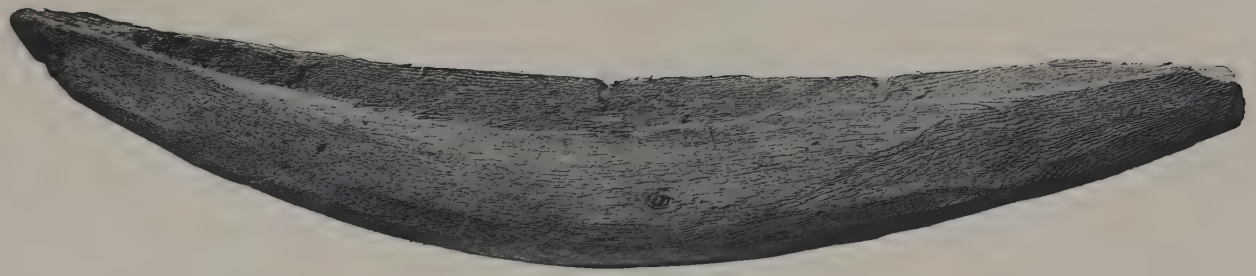

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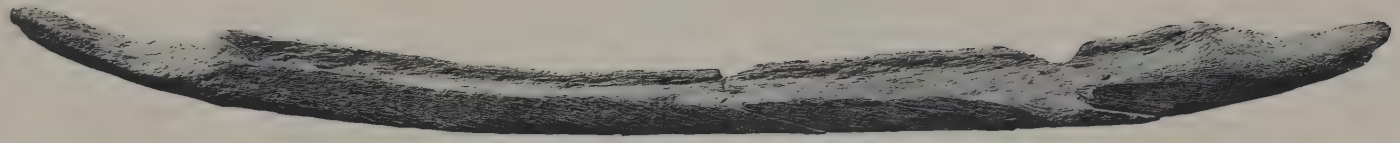

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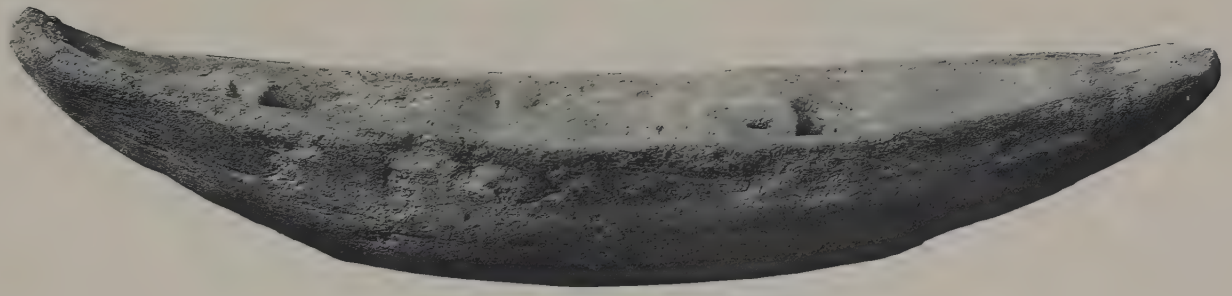

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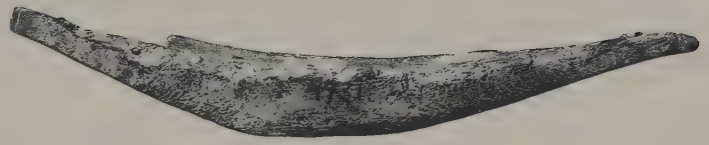

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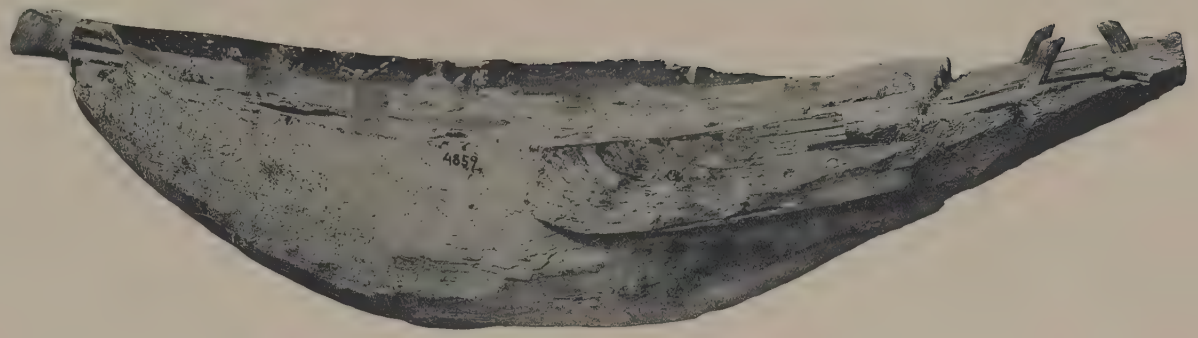

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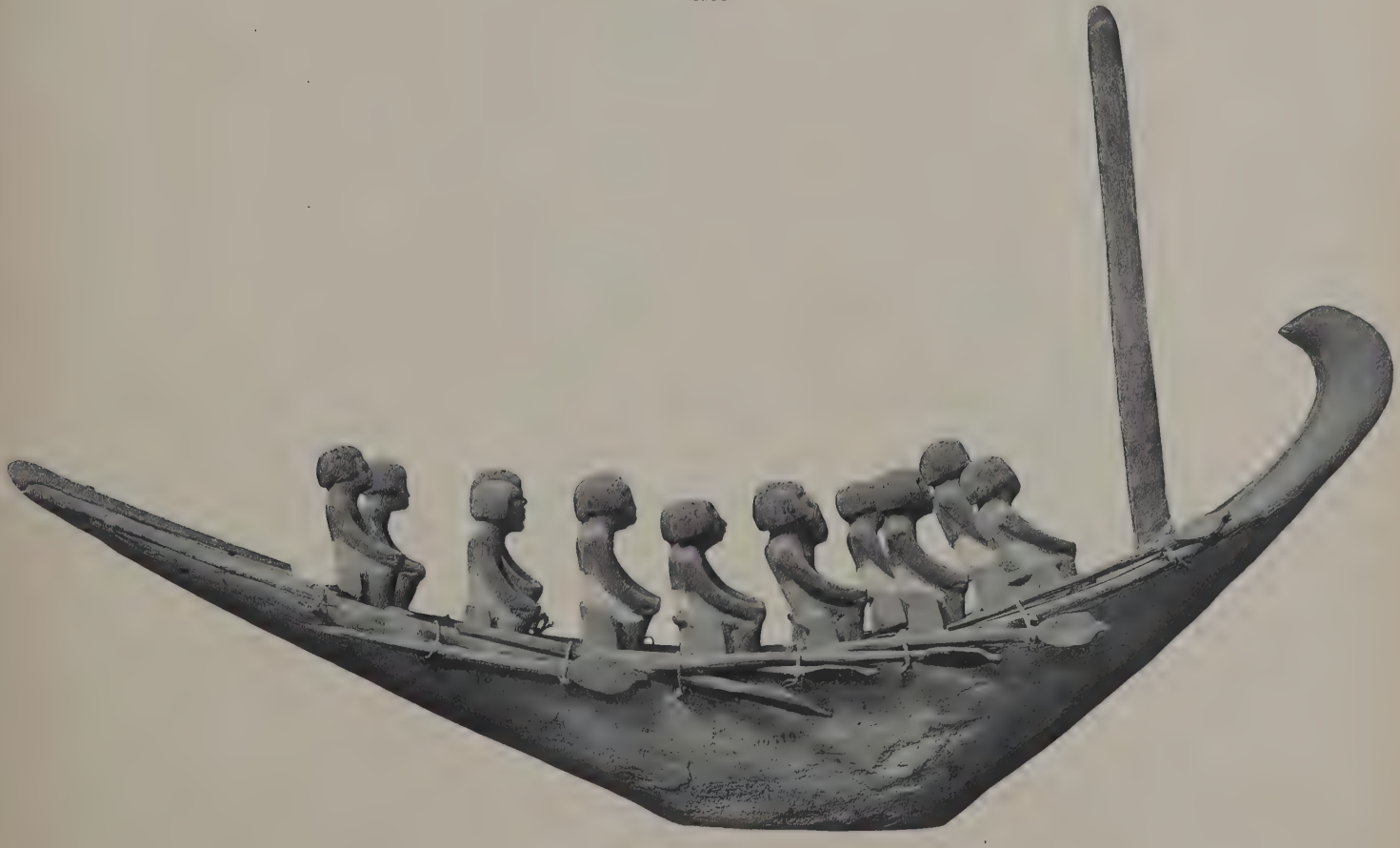

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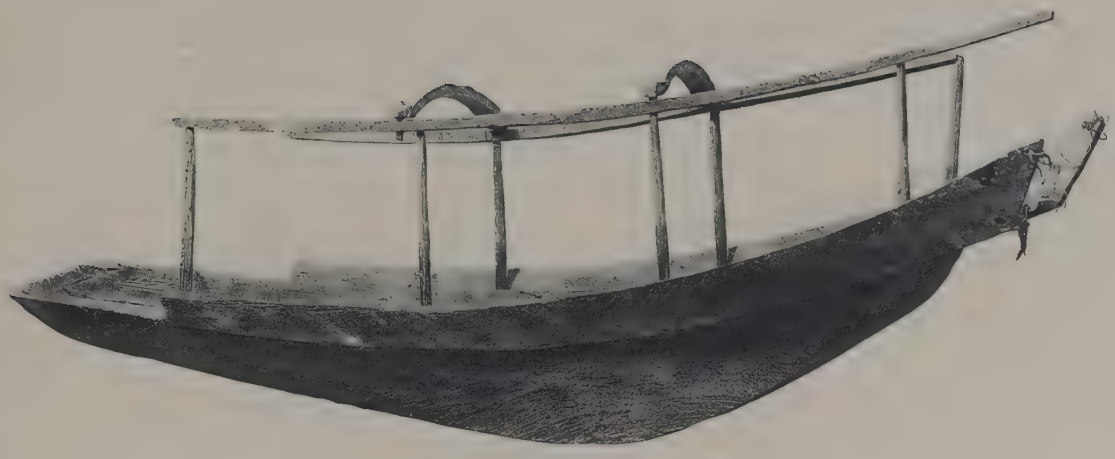

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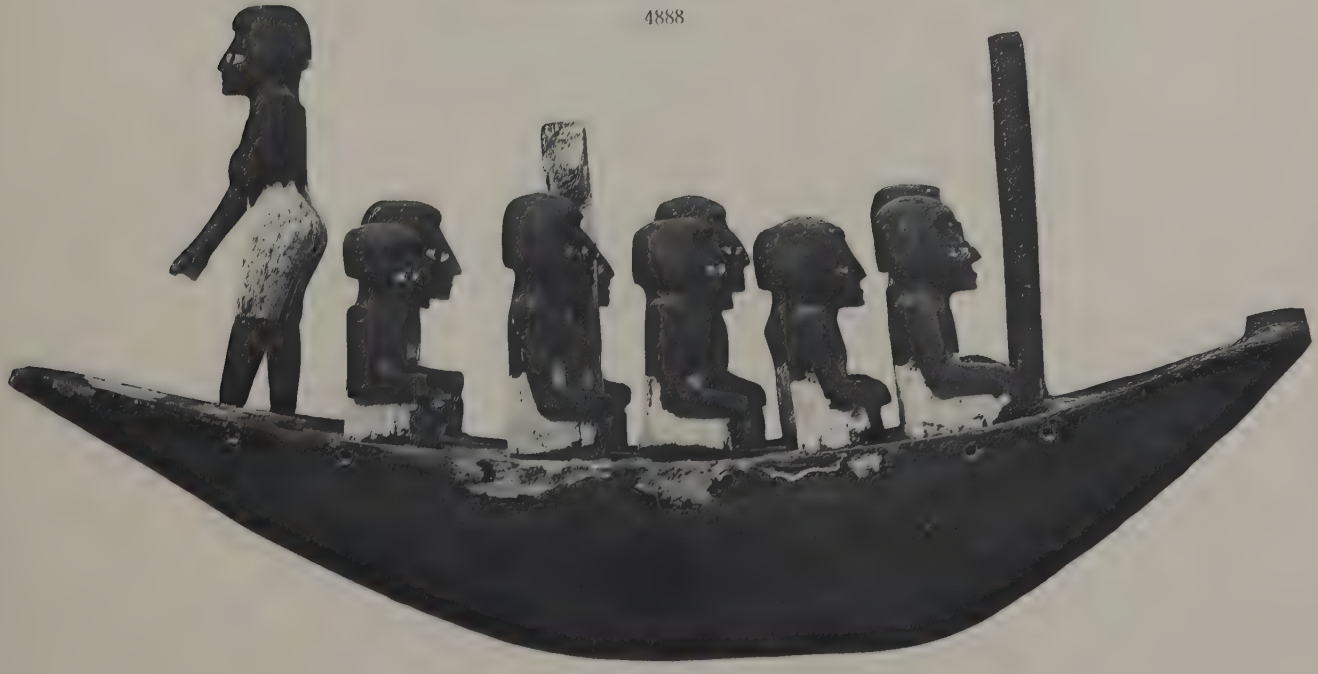

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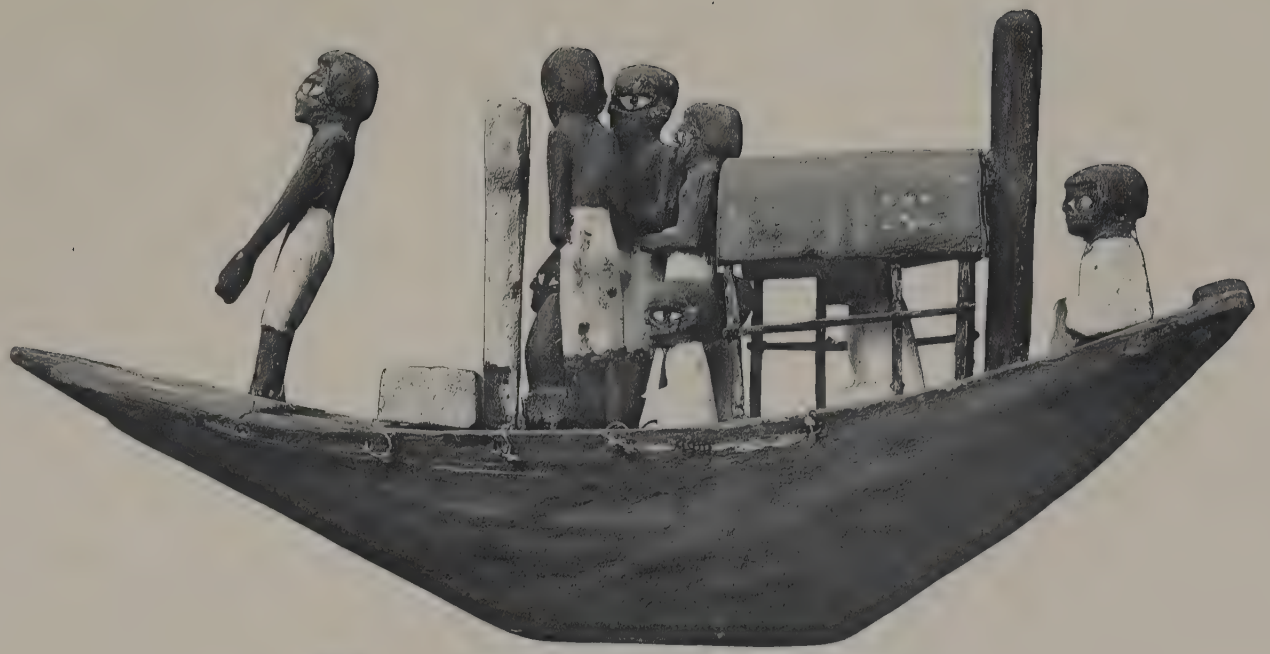

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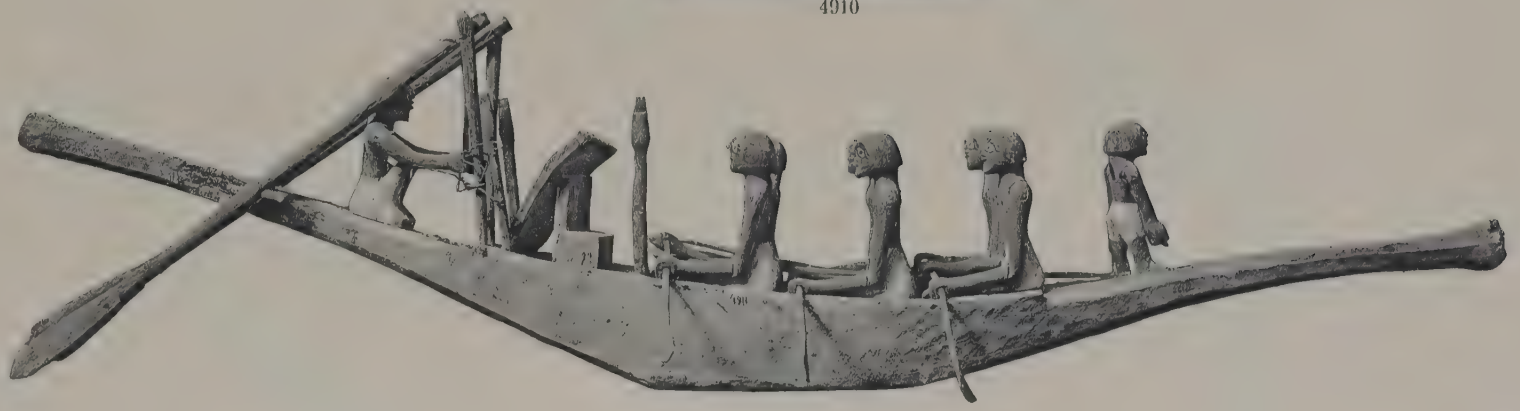

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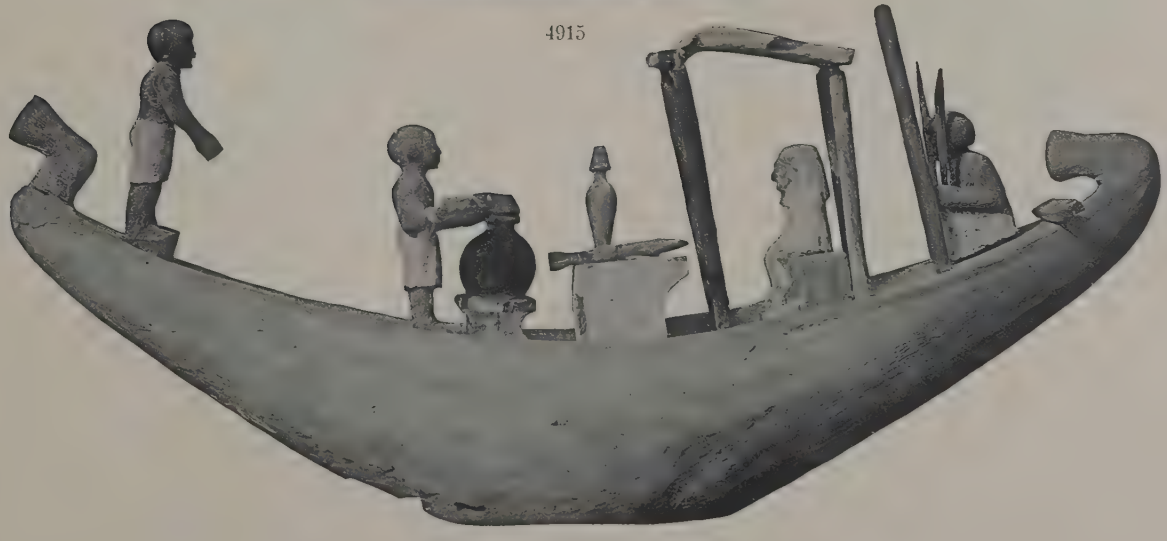

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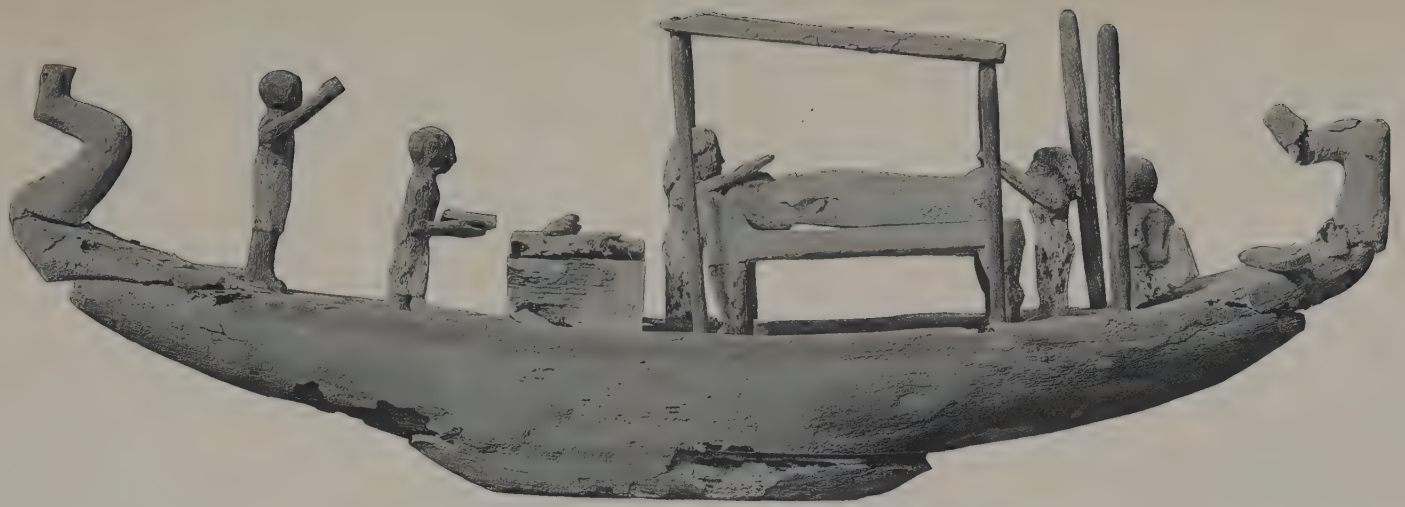

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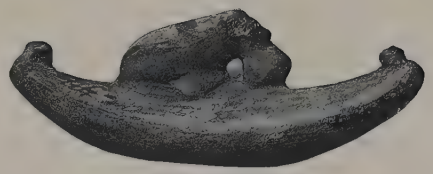

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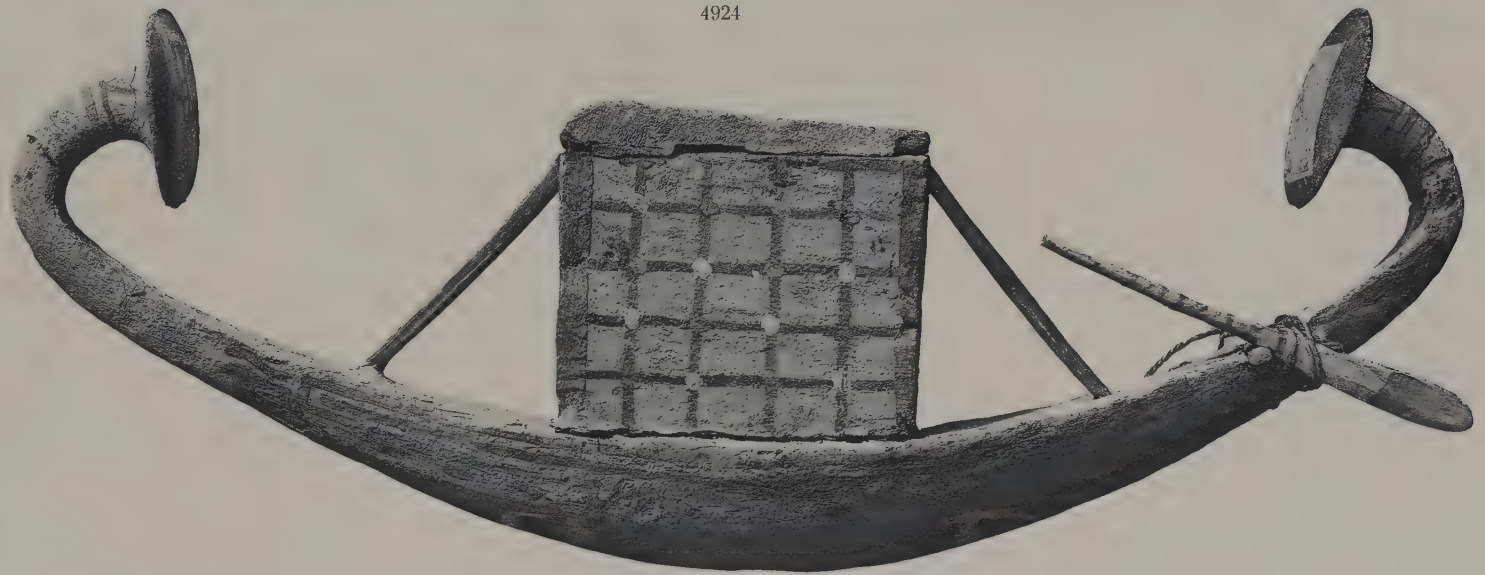

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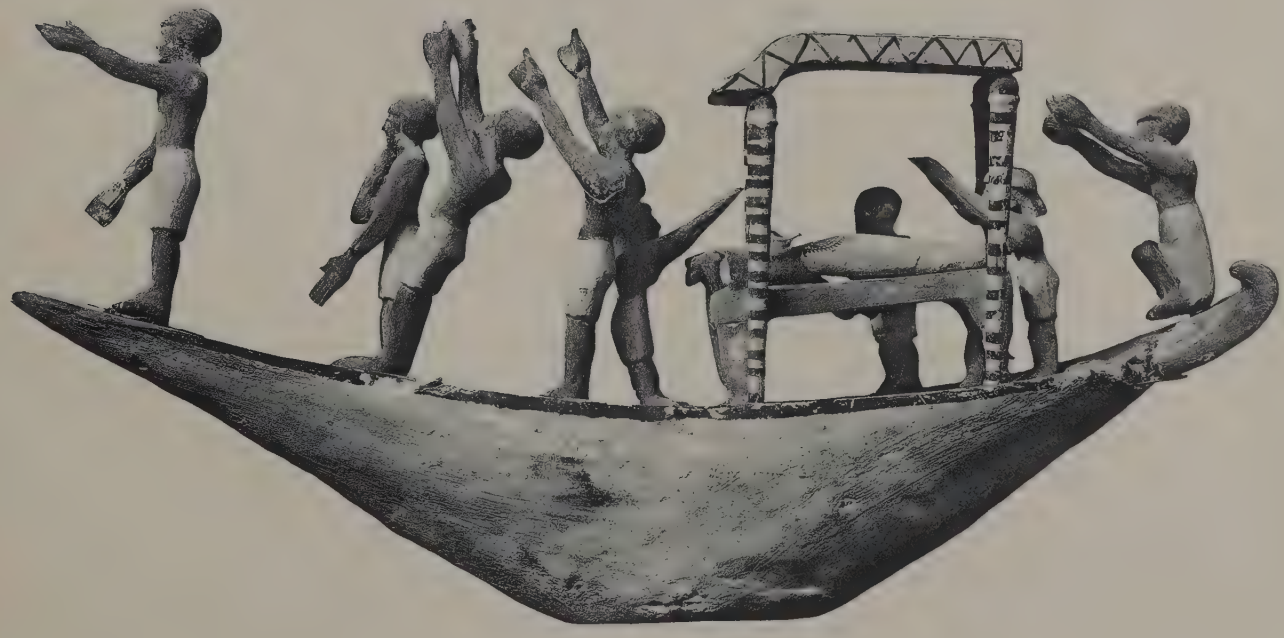

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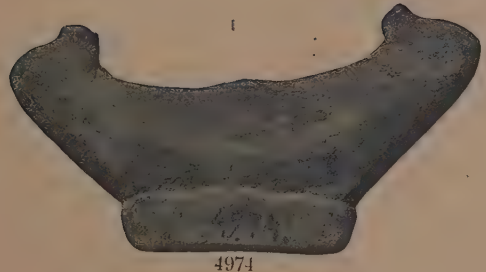

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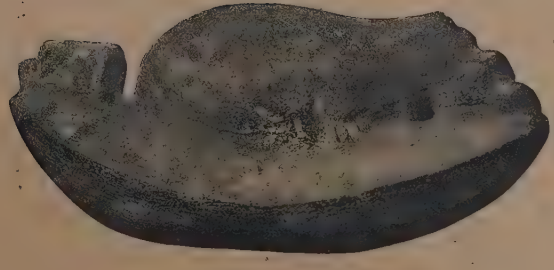

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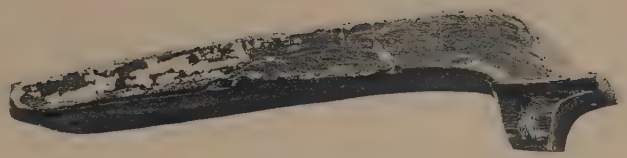

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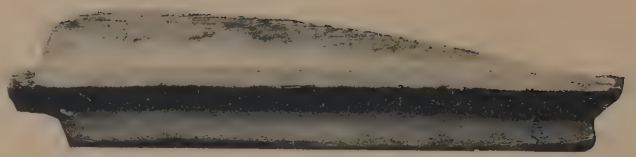

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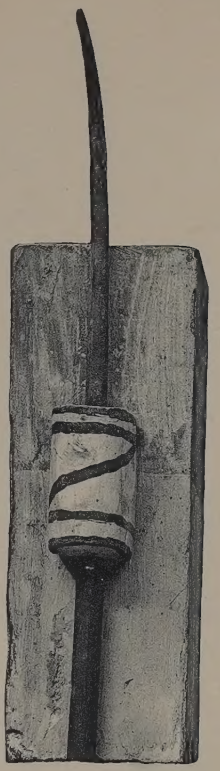

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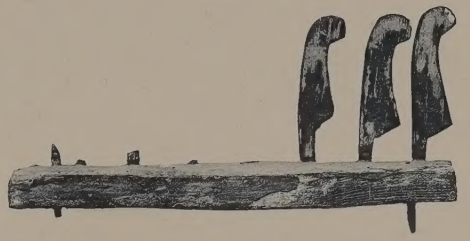

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Phototypie Berthaud, Paris